



US Army Corps
of Engineers
Alaska District

Public Notice of Application for Permit

Regulatory Branch (1145)

CEPOA-CO-R

Post Office Box 6898

Elmendorf AFB, Alaska 99506-0898

PUBLIC NOTICE DATE: 19 October 2006

EXPIRATION DATE: 20 November 2006

REFERENCE NUMBER: POA-2001-1161

WATERWAY: Koyukuk River

Interested parties are hereby notified that an application has been received for a Department of the Army permit for certain work in waters of the United States as described below and shown on the attached plan.

APPLICANT: Alaska Department of Transportation & Public Facilities, 2301 Peger Road, Fairbanks, AK 99709-5316. Contact Ms. Katrina LeMieux (907) 451-2243, or Mr. Chuck Howe, (907) 451-2238, for further information.

LOCATION: The proposed project is located from Section 15, T. 28 N., R. 12 W., to Section 24, T. 33 N., R. 10 W., Fairbanks Meridian; from Latitude 67.2541° N., Longitude 150.1771° W., to Latitude 67.6732° N., Longitude 149.7165° W.; from Coldfoot to Dietrich Camp, Alaska.

PURPOSE: The purpose of the proposed work is to bring this section of the highway up to the standard 32 foot width set for the Dalton Highway, and to replace the dusty, high maintenance gravel surface with a dust-free, easily maintained surface; also to restore bridge structures to their original condition and protect them from further deterioration, and to rehabilitate minesites when depleted.

WORK: For the road construction portion of the project, the applicant proposes to place 160,617 cubic yards (cy) of fill material into 71.8 acres of waters of the U.S. for 1) road widening from 28' to 32', 2) grade raises in problem areas, 3) repair or replacement of 215 culverts including riprap aprons, 4) repair bridges and provide scour protection, 5) construct two new waysides at MP 203 and MP 207.5, 6) upgrade the waysides at MP 204.5 and MP 186.2, 7) re-align the road for sight distance improvements, and 8) construct a rip-rap revetment on the Dietrich River at MP 206. Mechanical clearing and grubbing along the road would occur in an additional 80 acres of wetlands, with the organic materials hauled to stockpiles at material sites for use in rehabilitation.

The material site development portion of the project would result in disturbance of up to 141 acres of waters of the U.S.; organic and overburden material, as well as waste organic material from roadside clearing, would be placed in the mined areas for rehabilitation after the suitable material is removed. Up to 34,000 cy

of overburden and organic materials (24,000 cy from roadside grubbing, 10,000 cy overburden from minesites) are expected to be placed in the mine areas. Plans for each site are provided.

Placement of material into, and disturbance of, waters of the U.S. is shown in the table below:

Activity	Fill area in waters or wetlands (acres)	Fill area in uplands or disturbed (acres)	Fill volume in water or wetlands (cy)	Excavation area in wetlands (acres)	Excavation volume in wetlands (cy)
Road Widening	66.8	257.6	160,617	80	24,000
Culverts	2.2		16,100	1.6	14,000
Revetment (MP 206)	2.0		10,000	2.0	5,200
Bridges	0.59	0.52	3,085	0.59	2,884
Pullouts (MP 203, 207.5)	0.03		3,100		
Brockman Cr work	0.198		830		
Material sites					
Coldfoot quarry	0.5	5.2			2,600
Coldfoot sandpit	35.2	28.1	unknown, overburden	35.2	400,000
Marion Cr pit (new)	4.1	56.7	unknown, overburden	4.1	27,000
Wiseman quarry		18.2			
Minnie Cr borrow pit		34.2			
Nugget Cr borrow pit (new)	93.4		unknown, overburden	93.4	400,000
Gold Cr borrow pit	7.3	53.7	unknown, overburden	7.3	50,600
Temporary impact areas	180				
Temporary culvert work	28				

The revetment work on the Dietrich River (MP 206) is shown on Figure B-4-A and B-4-B. Revetment construction includes filling the small side channel near the highway with rip-rap to prevent further encroachment on the highway. The fill area in wetlands and open water would be 1700' x 27'.

The new pullouts at MP 203 and 207.5 would be 300' long and 30' at the widest; details are shown on Figure B-3.

At Brockman Creek, previous rip-rap has been washed out and the old plunge pool filled in by bedload, creating a perched outlet which is a barrier to fish passage. The proposed work is intended to create an outlet structure that will not wash out during the design storm and to increase tailgate height during spring

runoff in order to facilitate seasonal fish migrations. Rock crossvane structures will be constructed at the outlet. If work occurs between May 15 and July 1, a diversion plan will be developed.

A summary of wetland types affected by the proposed work is shown in the attached Table. Further details about wetland types are available upon request from ADOT&PF.

ADDITIONAL INFORMATION: The road surface would be topped with an asphalt driving surface to reduce dust and create easier maintenance. Other improvements include sign replacement and extending culverts to accommodate the wider road. The maximum centerline fill depth would be increased to 7 feet, with most road fill being about 5 feet in depth.

Temporary work areas for equipment access and parking, short-term staging, and slope tracking would be limited to a 20-foot wide area (50-foot around culverts) beyond the toe-of-slope. Damaged areas would be seeded with certified seed to promote soil stability and reduce risk of noxious weed infestation.

Further information, including wetland delineation, habitat evaluation, and photographs of the bridges, is available upon request from ADOT&PF.

MITIGATION: As a result of early project planning, the applicant has incorporated into the proposed project the following mitigation efforts to reduce impacts to the aquatic environment:

- 1) Upgrading 21 culverts for fish passage as based on an evaluation coordinated with the Alaska Department of Fish and Game (ADF&G).
- 2) Correction of washout problems at Brockman Creek to create an outlet structure that will not wash out during the design storm and to increase tailwater height during spring runoff in order to facilitate seasonal fish migrations.
- 3) Planning material site development to minimize disturbed footprint, avoid high value wetlands, and restore the sites to usable habitat.

WATER QUALITY CERTIFICATION: A permit for the described work will not be issued until a certification or waiver of certification as required under Section 401 of the Clean Water Act (Public Law 95-217), has been received from the Alaska Department of Environmental Conservation.

PUBLIC HEARING: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, reasons for holding a public hearing.

CULTURAL RESOURCES: The latest published version of the Alaska Heritage Resources Survey (AHRS) has been consulted for the presence or absence of historic properties, including those listed in or eligible for inclusion in the National Register of Historic Places. There are unevaluated properties in the vicinity of the worksite. These are designated WIS-14, WIS-315 Cabin Ruins, WIS-314 Cabin Ruins, WIS-13, WIS-39, WIS-289, WIS-38, WIS-32, WIS-33, WIS-34, WIS-36, WIS-15, WIS-50 Minnie Creek Mine Shaft, CHN-13, CHN-14 Log and Sod House, CHN-15 Arctic John Etalook Cabin, CHN-41 John Etalook Summer Camp, CHN-18, CHN-7 Gold Creek Cabin No. 1, CHN-25, CHN-5, CHN-8 Cache, CHN-34 Gold Creek, CHN-9 Gold Creek Cabin No. 2, CHN-21, CHN-22 Wilcox Drift Mine Complex. Because these properties may be within or close to the project area, a determination of eligibility and, if needed, a determination of effect will be made in consultation with the State Historic Preservation Officer (SHPO). Consultation of the AHRS constitutes the extent of cultural resource investigations by the District Engineer at this time.

This application is being coordinated with SHPO. Any comments SHPO may have concerning presently unknown archeological or historic data that may be lost or destroyed by work under the requested permit will be considered in our final assessment of the described work.

TRIBAL CONSULTATION: The Alaska District fully supports tribal self-governance and government-to-government relations between the Federal government and Federally recognized Tribes. This notice invites participation by agencies, Tribes, and members of the public in the Federal decision-making process. In addition, Tribes with protected rights or resources that could be significantly affected by a proposed Federal action (e.g., a permit decision) have the right to consult with the Alaska District on a government-to-government basis. Views of each Tribe regarding protected rights and resources will be accorded due consideration in this process. This Public Notice serves as notification to the Tribes within the area potentially affected by the proposed work and invites their participation in the Federal decision-making process regarding the protected Tribal right or resource. Consultation may be initiated by the affected Tribe upon written request to the District Engineer during the public comment period.

ENDANGERED SPECIES: No threatened or endangered species are known to use the project area.

Preliminarily, the described activity will not affect threatened or endangered species, or modify their designated critical habitat, under the Endangered Species Act of 1973 (87 Stat. 844). This application is being coordinated with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Any comments they may have concerning endangered or threatened wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

ESSENTIAL FISH HABITAT: The proposed work is being evaluated for possible effects to Essential Fish Habitat (EFH) pursuant to the Magnuson Stevens Fishery Conservation and Management Act of 1996 (MSFCMA), 16 U.S.C. et seq and associated federal regulations found at 50 CFR 600 Subpart K. The Alaska District includes areas of EFH as Fishery Management Plans. We have reviewed the January 20, 1999, North Pacific Fishery Management Council's Environmental Assessment to locate EFH area as identified by the National Marine Fisheries Service (NMFS).

We have determined that the described activity may adversely affect EFH. The proposed work may affect EFH for juvenile and adult salmon. Previous coordination with NMFS for this project did not include the mine sites, revetment work on the Koyukuk River, or details of some of the other work in streams. This Public Notice initiates consultation requirements with the NMFS under the MSFCMA. We have insufficient information at this time to assess the cumulative effects of the proposed work on EFH, but cumulative effects will be considered in our final assessment of the described work. Any conservation recommendations regarding EFH for federally managed fish will also be considered in our final assessment of the described work. This proposed project may also adversely affect associated species such as major prey or predator species which are not covered by Fishery Management Plans.

SPECIAL AREA DESIGNATION: None.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impacts including cumulative impacts of the proposed activity and its intended use on the public interest. Evaluation of the probable impacts, which the proposed activity may have on the public interest, requires a careful weighing of all the factors that become relevant in each particular case. The benefits, which reasonably may be expected to accrue from the proposal, must be

balanced against its reasonably foreseeable detriments. The decision whether to authorize a proposal, and if so, the conditions under which it will be allowed to occur, are therefore determined by the outcome of the general balancing process. That decision should reflect the national concern for both protection and utilization of important resources. All factors, which may be relevant to the proposal, must be considered including the cumulative effects thereof. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving 404 discharges, a permit will be denied if the discharge that would be authorized by such permit would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria (see Sections 320.2 and 320.3), a permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Comments on the described work, with the reference number, should reach this office no later than the expiration date of this Public Notice to become part of the record and be considered in the decision. Please contact Ms. Terry Carpenter at (907) 753-2712, toll free from within Alaska at (800) 478-2712, or by email at terry.a.carpenter@poa02.usace.army.mil if further information is desired concerning this notice.

AUTHORITY: This permit will be issued or denied under the following authorities:

(X) Discharge dredged or fill material into waters of the United States - Section 404 Clean Water Act (33 U.S.C. 1344). Therefore, our public interest review will consider the guidelines set forth under Section 404(b) of the Clean Water Act (40 CFR 230).

A plan, Notice of Application for Certification of Consistency with the Alaska Coastal Management Program, and Notice of Application for State Water Quality Certification are attached to this Public Notice.

District Engineer
U.S. Army, Corps of Engineers

Attachments

FRANK H. MURKOWSKI, GOVERNOR

STATE OF ALASKA

OFFICE OF THE GOVERNOR

DEPT. OF ENVIRONMENTAL CONSERVATION

DIVISION OF WATER

401 Certification Program

Non-Point Source Water Pollution Control Program

NOTICE OF APPLICATION FOR STATE WATER QUALITY CERTIFICATION

Any applicant for a federal license or permit to conduct an activity that might result in a discharge into navigable waters, in accordance with Section 401 of the Clean Water Act of 1977 (PL95-217), also must apply for and obtain certification from the Alaska Department of Environmental Conservation that the discharge will comply with the Clean Water Act, the Alaska Water Quality Standards, and other applicable State laws. By agreement between the U.S. Army Corps of Engineers and the Department of Environmental Conservation, application for a Department of the Army permit to discharge dredged or fill material into navigable waters under Section 404 of the Clean Water Act also may serve as application for State Water Quality Certification.

Notice is hereby given that the application for a Department of the Army Permit described in the Corps of Engineers' Public Notice No. POA-2001-1161, Koyukuk River, State Water Quality Certification from the Department of Environmental Conservation.

After reviewing the application, the Department may certify that there is reasonable assurance that the activity, and any discharge that might result, will comply with the Clean Water Act, the Alaska Water Quality Standards, and other applicable State laws. The Department also may deny or waive certification.

Any person desiring to comment on the project with respect to Water Quality Certification may submit written comments within 30 days of the date of the Corps of Engineer's Public Notice to:

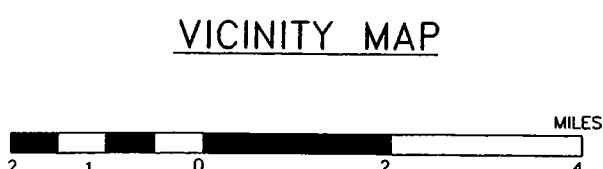
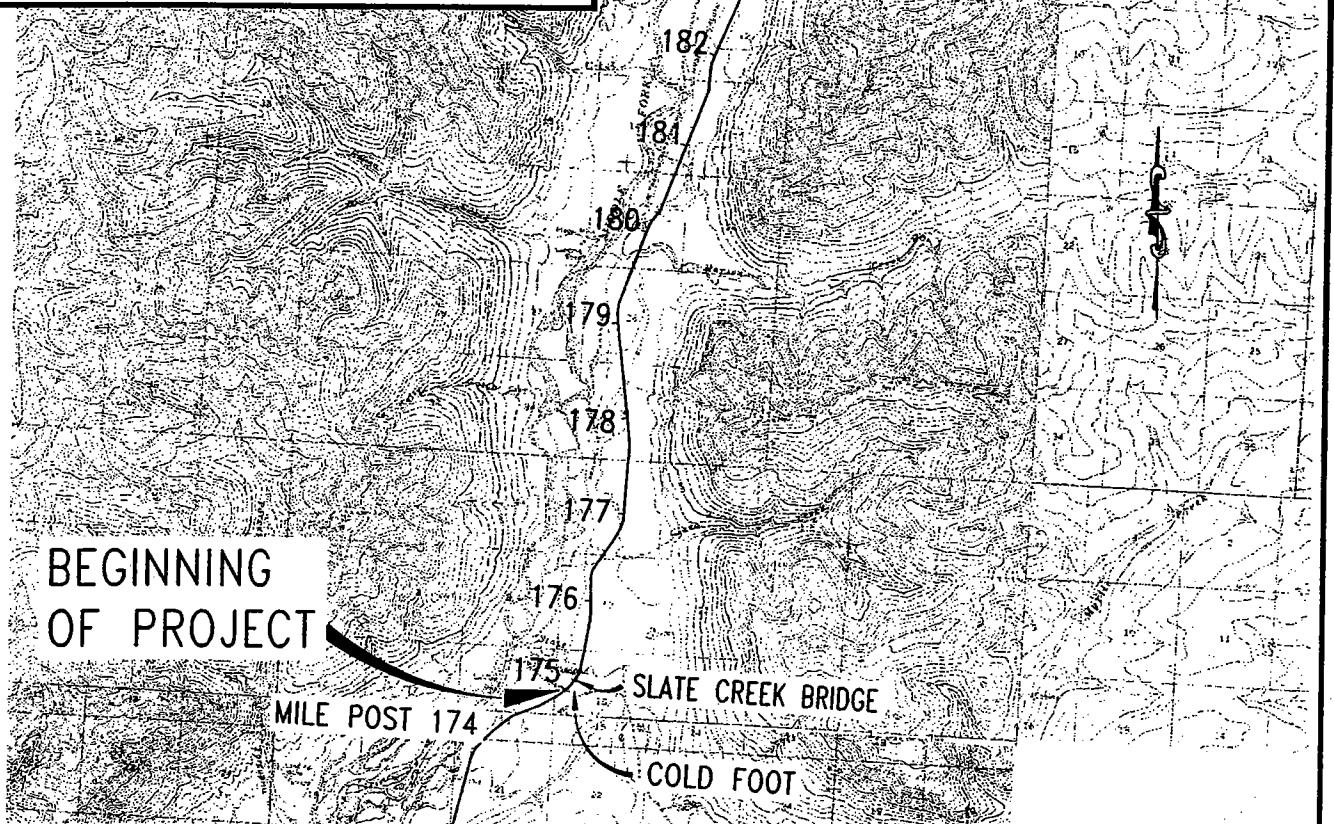
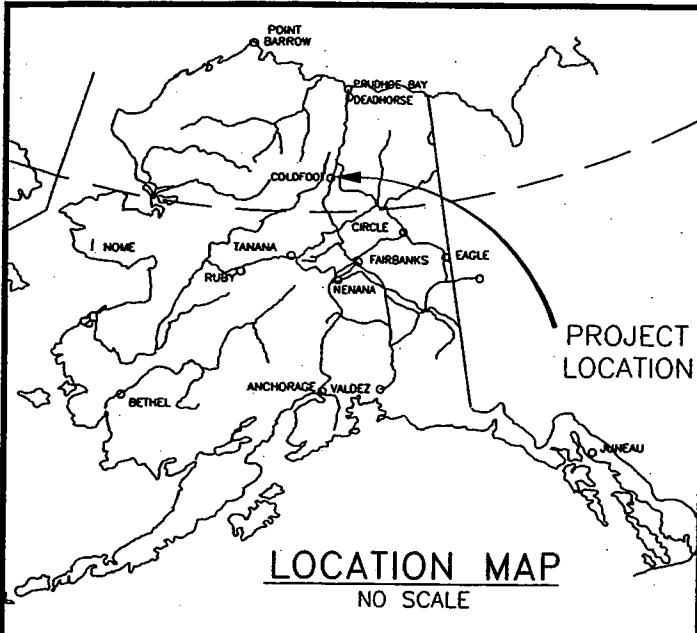
Department of Environmental Conservation
WQM/401 Certification
555 Cordova Street
Anchorage, Alaska 99501-2617
Telephone: (907) 269-6281
FAX: (907) 269-7508

Dalton Highway MP 175-209 Rehabilitation
Wetland and Habitat Impacts
Road Corridor

Wetland Type	Permanent Impacts* (Acres)	Fill Volume* (Cubic Yards)	Temporary Impacts* (Acres)
LOWH	0.1	240	0.8
OWUS	1.5	3,607	3.3
PEM1F	1.3	3,126	5.4
PFO4B	4.5	10,820	10.6
PFO4-SS1B	11.7	28,132	34.1
PSS1-3B	24.3	58,428	59.5
PSS1B	12.2	29,334	21.4
PSS1-EM1B	1.1	2,645	6.3
PSS4-1B	10.1	24,285	18.4
TOTAL WETLAND IMPACTS	66.8	160,617	159.8
UPLAND	257.6	619,383	22.4
TOTAL IMPACTS	324.4	780,000	182.2

*Impact areas and fill quantities for road widening, resurfacing, and grade raises. Table does not include areas or quantities for bridge/culvert riprap or material sites impacts. These are detailed in the Summary of Wetland Impacts table, located with the Project Description.

Habitat Type	Permanent Impacts (Acres)	Fill Volume (Cubic Yards)	Temporary Impacts (Acres)
Aquatic Marsh	1.3	3,126	5.4
Lakes and Ponds	0.1	240	0.8
Lowland Dwarf Needleleaf Forest	9.4	22,602	22.7
Lowland Dwarf Needleleaf Woodland	5.7	13,705	16.9
Lowland Low Scrub	20.0	48,089	46.8
Lowland Mixed Forest	0.8	1,924	1.1
Lowland Needleleaf Forest	3.8	9,137	9.1
Lowland Needleleaf Woodland	13.6	32,700	37.1
Lowland Scrub Swamp	2.0	4,809	4.4
Lowland Tall Scrub	3.3	7,935	5.6
Riverine Barrens	0.7	1,683	1.7
Riverine Low Scrub	1.0	2,404	1.6
Riverine Mixed Forest	0.7	1,683	1.5
Riverine Needleleaf Forest	0.5	1,202	1.5
Riverine Tall Scrub	0.7	1,683	1.3
Rivers and Streams	0.8	1,924	2.5
Upland Broadleaf Forest	0.1	240	0.2
Upland Disturbed	251.6	604,957	2.4
Upland Low Scrub	0.2	481	0.7
Upland Mixed Forest	0.3	721	0.6
Upland Needleleaf Forest	2.6	6,252	6.7
Upland Needleleaf Woodland	1.9	4,568	7.5
Upland Tall Scrub	3.3	7,935	4.1
TOTAL HABITAT IMPACTS	324.4	780,000	182.2



WISERMAN (B-1), CHANDALAR
(B-6), & (C-6)
B.O.P. S15 T 28N R12 W
E.O.P. S24 T 33N R10 W

STATE OF ALASKA
Department of Transportation and Public Facilities
APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

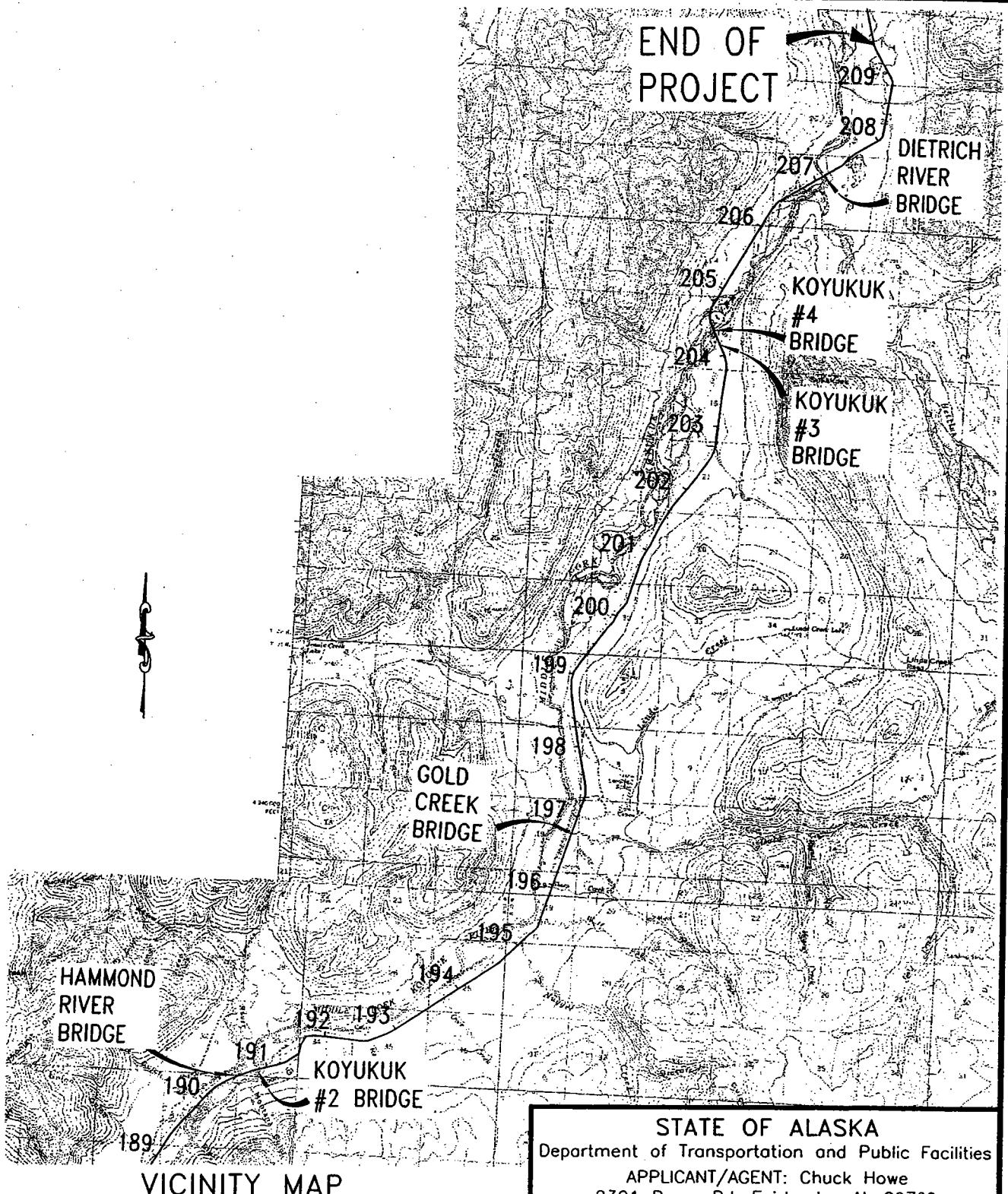
DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)

VICINITY MAP

DATE: 06/08/06

FIGURE A-1



STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

DALTON HIGHWAY
MP 175 TO MP 209

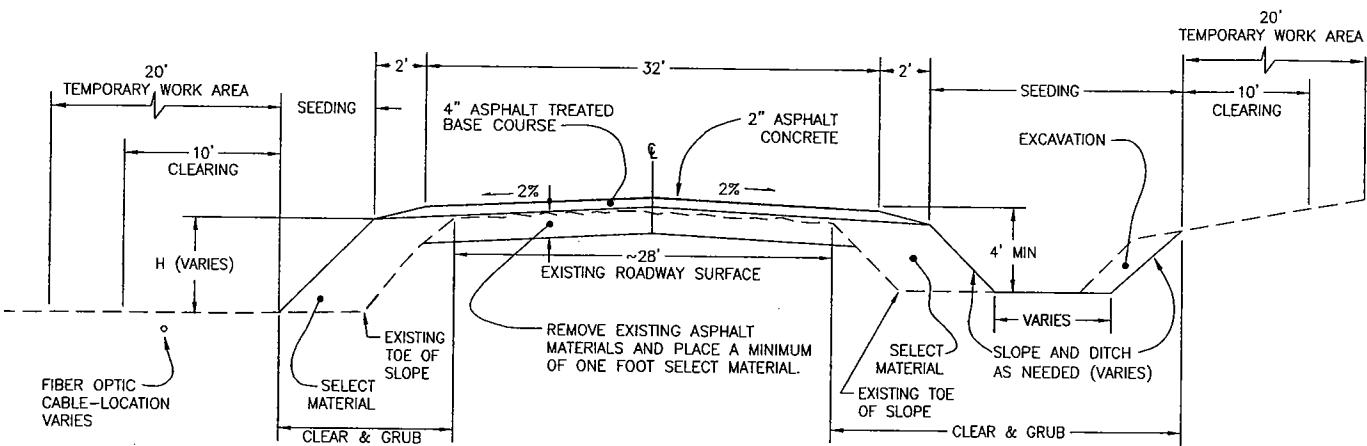
IM-DP-065-4(8)/61214 (POA-2001-1161)

VICINITY MAP

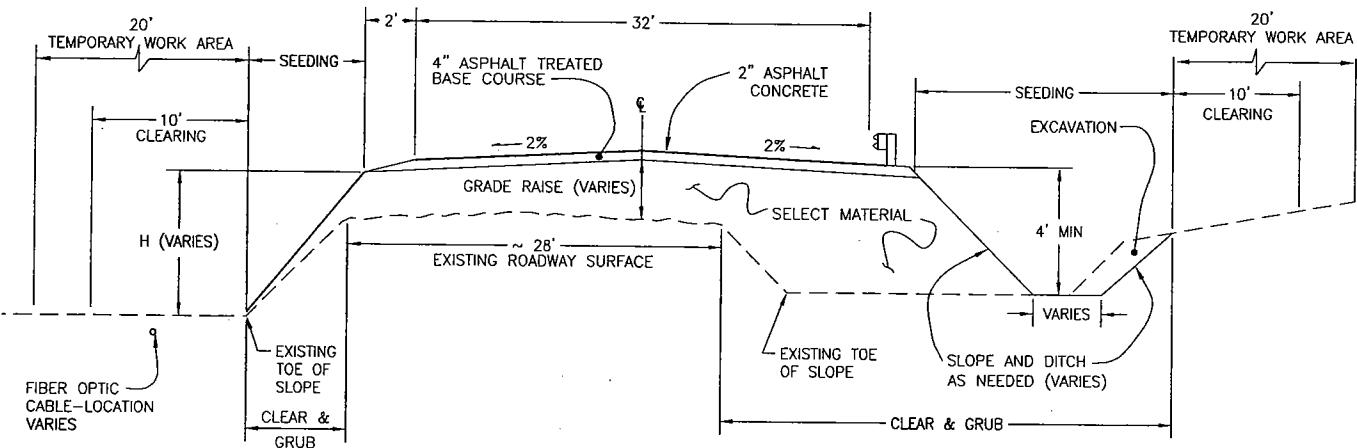
DATE: 06/08/06

FIGURE A-2

WISEMAN (B-1), CHANDALAR
(B-6), & (C-6)
B.O.P. S15 T 28N R12 W
E.O.P. S24 T 33N R10 W



TYPICAL SECTION: WIDENING & SUBEXCAVATION
N.T.S.



TYPICAL SECTION: WIDENING ON ONE SIDE & GRADE RAISE
N.T.S.

SLOPE TABLE

H (EMBANKMENT HEIGHT) (FT)	SLOPE HORIZONTAL : VERTICAL
0 - 5	4 : 1
5 - 10	3 : 1
10 - 15	2 : 1
15 - 20	1.5 : 1

STATE OF ALASKA
Department of Transportation and Public Facilities
APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

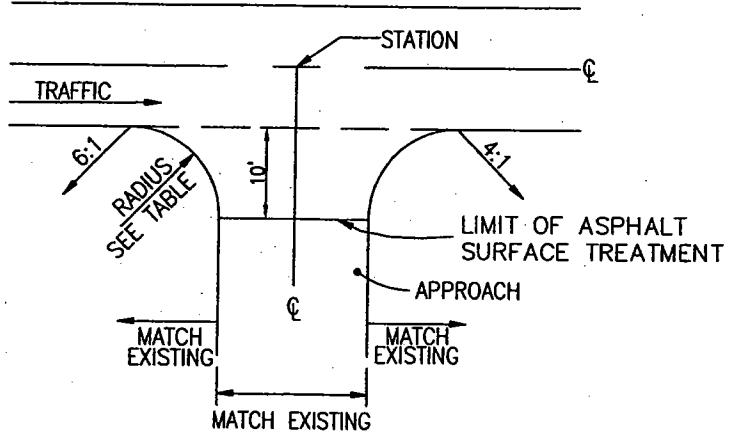
DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)

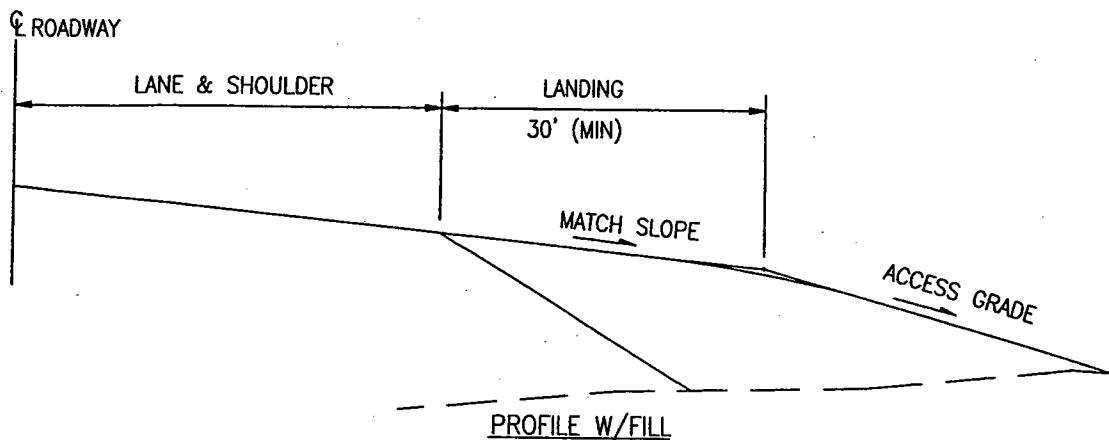
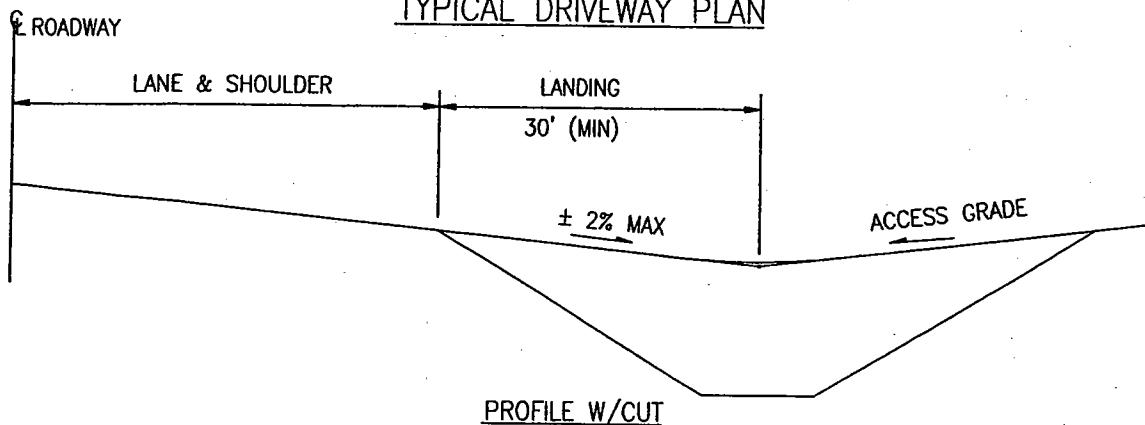
TYPICAL SECTIONS

DATE: 09/22/06

FIGURE B-1



TYPICAL DRIVEWAY PLAN



APPROACH PROFILES WITH NORMAL CROWN

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709

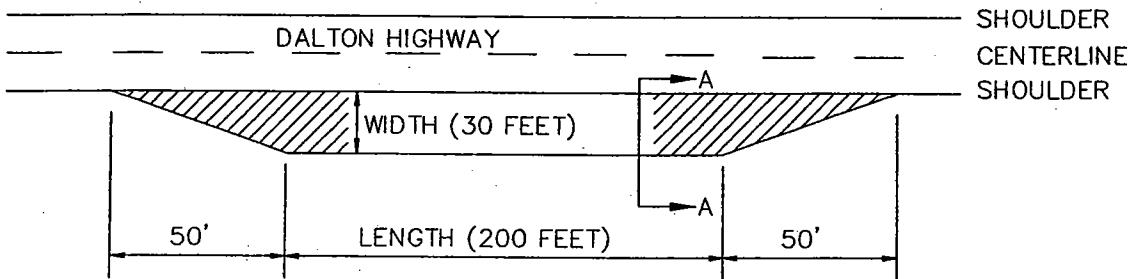
DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)

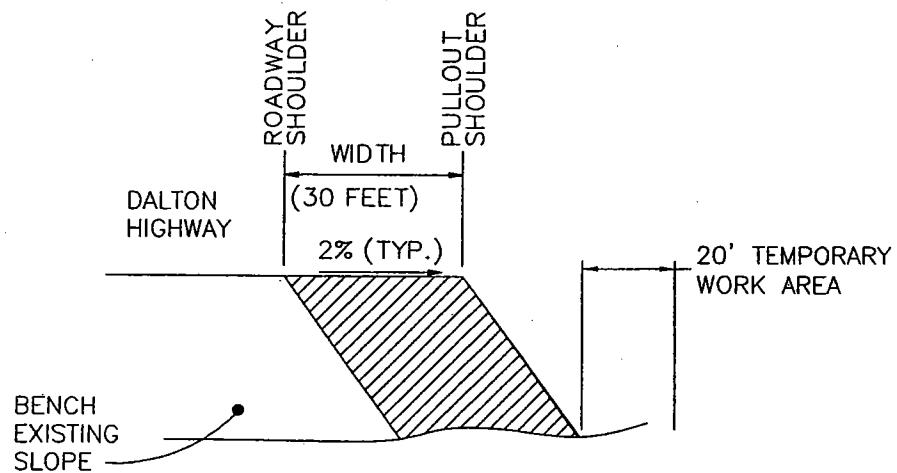
TYPICAL SECTION

DATE: 06/12/06

FIGURE B-2



PULLOUT DETAIL (TYP)



SECTION A-A (TYP)

STATE OF ALASKA
Department of Transportation and Public Facilities
APPLICANT/AGENT: DOT & PF
2301 Peger Rd. Fairbanks, Ak 99709

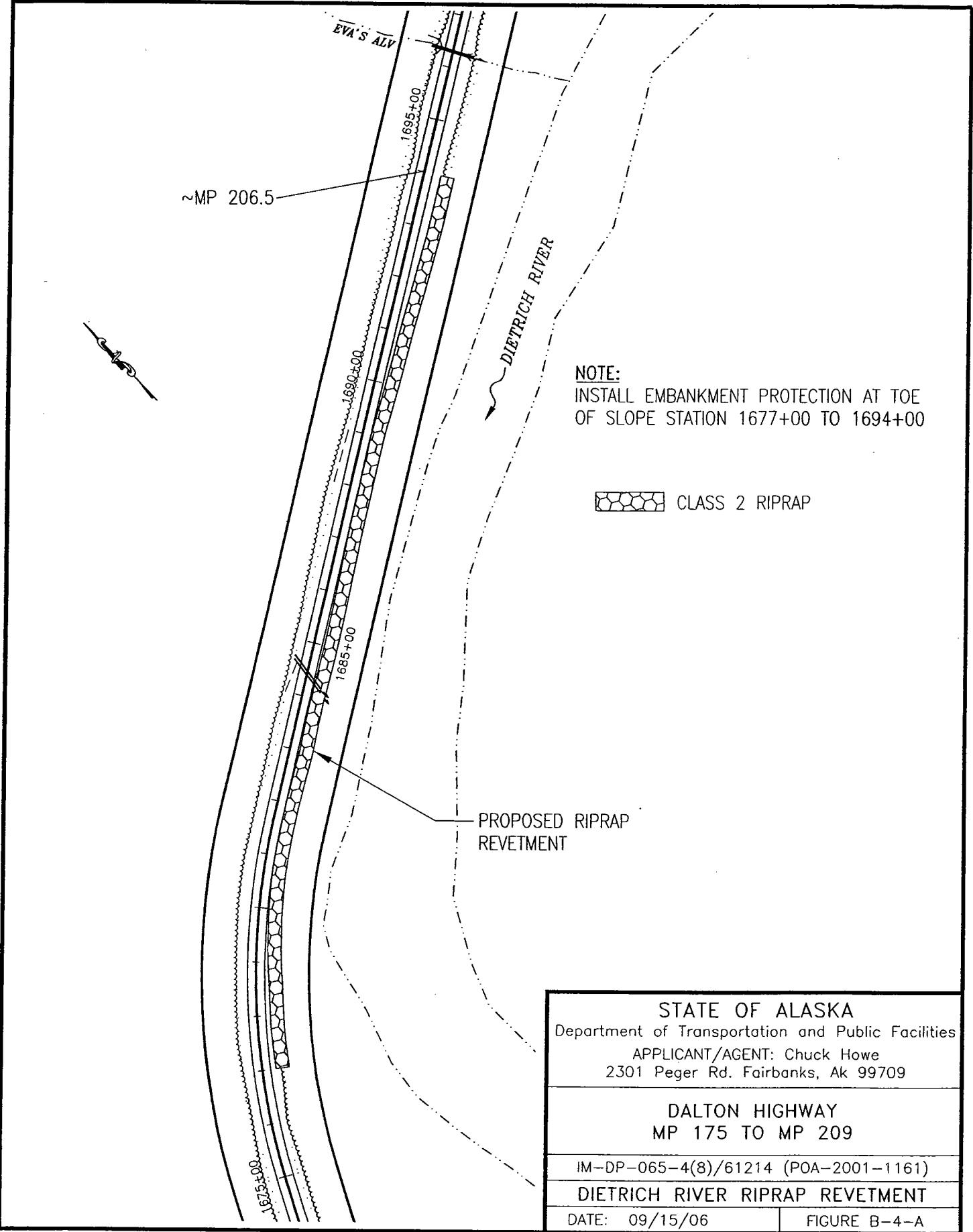
DALTON HIGHWAY MP 175-209
REHABILITATION

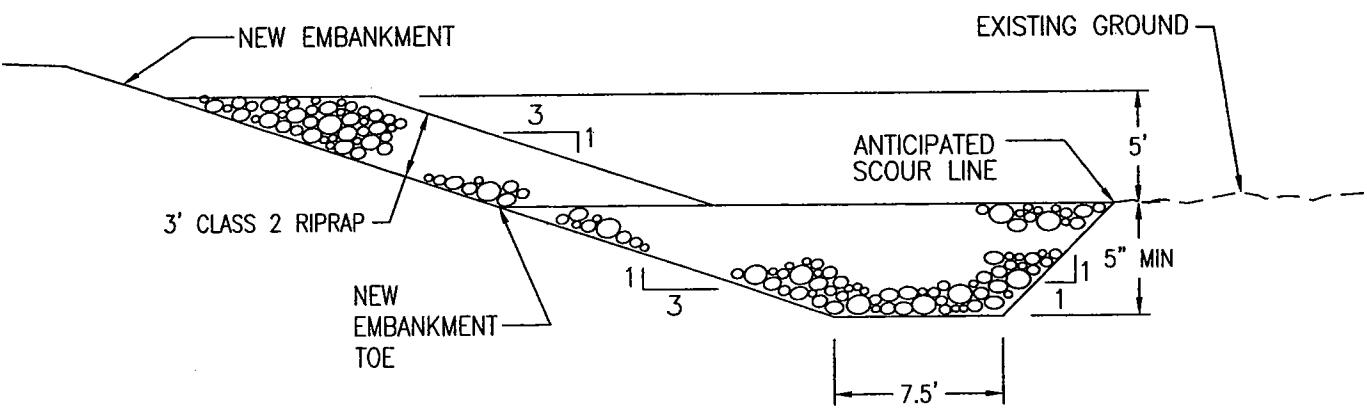
DP-065-4(8)/61214 (POA-2001-1161)

NEW PULLOUT DETAILS

DATE: 06/08/06

FIGURE B-3





RIPRAP REVETMENT TYPICAL SECTION

STATE OF ALASKA
 Department of Transportation and Public Facilities
 APPLICANT/AGENT: Chuck Howe
 2301 Peger Rd. Fairbanks, Ak 99709

DALTON HIGHWAY
 MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)

DIETRICH RIVER RIPRAP REVETMENT

DATE: 10/6/06

FIGURE B-4-B

Table 1: Dalton Highway 175 to 209 Fish Passage Culvert Summary

Mile	Station	Drainage Name	Existing Culverts (1991 As-Built Plans)	Proposed Culverts (Size, gage, depression, fish passage tier)	Culvert Headwall/Deadmen
175.10			Twin - 60" x 72' SPP's	13'-4"x9'-3"x78' SPPA, 31" corners, 8 gage, depressed 3.2', Tier I	SPPA, deadman restrain inlet
176.38	74+07 1+17	Clara Creek	60" x 71' CMP	(Extend 6 feet), Tier II	
178.72	197+39	Mary Angel Creek	7'-8" x 5'-6" x 80' SPPA	Extend 44 feet, Tier II	
179.80				deadman restrain inlet	
180.40	285+55	Pen's Pond Creek	7'-8" x 5'-6" x 80' SPPA		
187.20					
188.50					
189.72	777+97	Confederate Gulch / Fry Creek	48" x 111' CMP	84" x 111' SPP, depressed 3 ft, Tier I	two deadmen
190.60					
190.80					
191.00	844+79	One-O-One Creek	36" x 100' CMP	60" x 100' SPP, depressed 1 ft, Tier II	
191.18	855+26	Richardson Slough	24" x 143' CMP	48" x 143' CSP, 3x1 corr., depressed 1 ft, Tier II	
191.45	869+17	Coon Gulch	36" x 76' CMP	48" x 76' CSP, 3x1 corr., depressed 1 ft, Tier II	
193.10	949+24 1+31	Rainbow Creek	Twin - 48" x 87' \ 86' CMPS	84" x 100' SPP, depressed 3 ft, Tier I	two deadmen
194.00	1001+58	Over Creek	48" x 60' CMP	60" x 72' SPP, depressed 1 ft, Tier II	
194.38	1024+02	Over Creek Tributary	48" x 56' CMP	Extend 6' (or replace due to rust), Tier II	
194.80	1047+36	Over Creek Complex	30" x 71' CMP	48" x 79' CSP, 3x1 corr., 12 gage, depressed 1.5 ft, Tier I	
195.41	1079+80	Nugget Creek	10'-3" x 6'-9" x 106' SPPA	15'-4" x 10'-4" x 108' SPPA, 31" corners, 8 gage, depressed 3', Tier I	
195.60	1091+68		36" x 81' CMP	60" x 81' CSP, 3x1 corr., 12 gage, depressed 2 ft, Tier I	
195.80	1100+62	Wolf Pup Creek	48" x 77' CMP	Extend 4', Tier III	
195.84	1102+41	Wolf Pup Creek overflow	48" x 72' CMP	Extend	
196.28	1128+94	Sheep Creek	8'-6" x 68' SPP	108" x 82' SPP, 10 gage, depressed 2 ft, Tier II	deadman restrain inlet
197.00					
197.52	1197+30	Linda Creek	14" x 120' SPP	No work planned, Tier I	
202.67	1482+63	Sukakpak Creek	8'-10" x 6'-1" x 82' SPP	Extend 13', Tier III	
204.00	1557+50	West Fork Sukakpak Creek	24" x 100' CMP	48" x 108' CSP, 3x1 corr., depressed 1 ft, Tier II	deadman restrain inlet
204.30					
204.50					
204.86	1601+99	Millies Meander	48" x 71' CMP	Extend 16', Tier III	
205.15	1617+44	Millies Meander	24" x 100' CMP	Extend 22', Tier III	
206.56	1696+30	Eva's Alv	8'-10" x 6'-1" x 68' SPPA	None, Tier III	
207.00					
208.24	1790+68	Brockman Creek	10'-3" x 6'-9" x 62' SPPA	Dietrich River Bridge	Outfall repair only
208.25	1790+82	Brockman Creek	12' x 62' SPP	Install baffles, construct 3-step vortex weir beyond ROW, Tier III	
208.31	1794+58	Brockman Creek overflow	10' x 102' SPP	Outfall repair only	

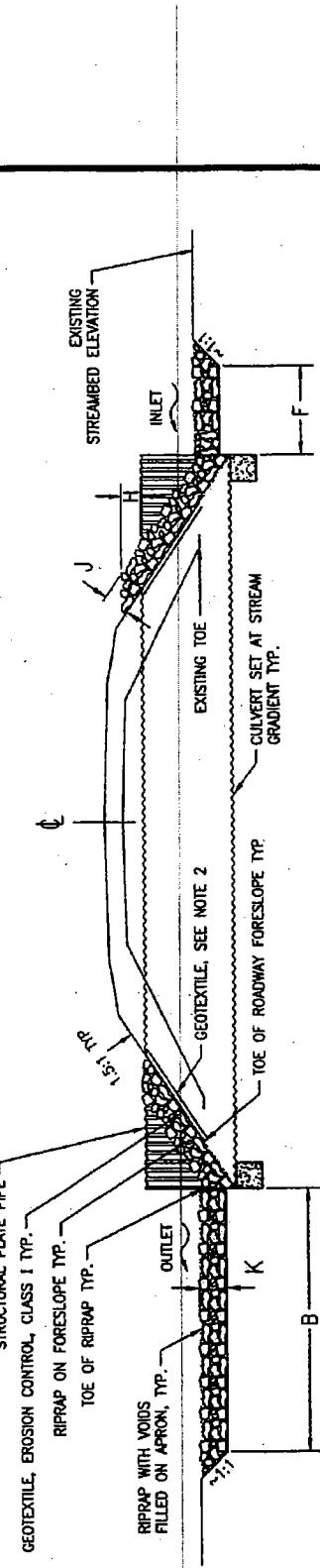
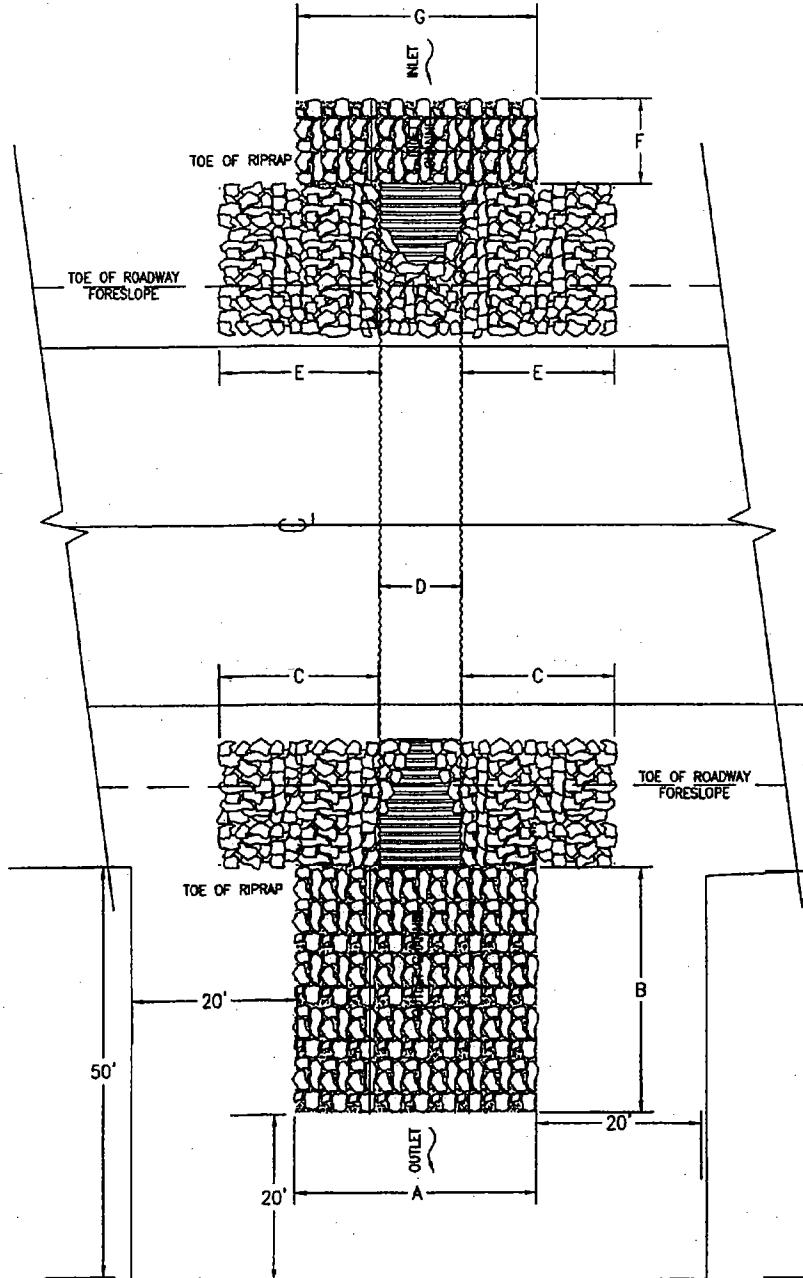
Notes:

1. Stream bedload description: In general, most of the streams south of Sukakpak Mountain, near Mile 204, have morphologies very similar to Nugget Creek (i.e. relatively incised, low bedload with cobble substrate) and those to the north had morphologies more like Snowden Creek (i.e. braided, high bed load, alluvial fan type streams).
2. As per the 2/14/03 DNR-OHMP memo, all culverts included on this list are required to maintain fish passage.
3. Bridges are listed for reference only

TABLE 2: RIPRAP APRON DIMENSIONS AT FISH PASSAGE CULVERT

DRAINAGE	MILEPOST	A	B	C	D	E	F	G	H	FORSSLOPE RIPRAP	J	APRON RIPRAP	K	CLASS I RIPRAP (CY)	CLASS II RIPRAP (CY)	AREA sf (acres)	COMMENTS	
CLARA CREEK	176.4	40'	40'	27'	13'-3"	27'	14'	40'	3'	CLASS II	3'	CLASS II	3'	604.00	5500 (0.126)	SPPA		
ONE-O-ONE CREEK	191.0	15'	—	5'	10'	5'	15'	3'	CLASS II	3'	CLASS II	3'	64.00	580 (0.013)	NO FORESLOPE RIPRAP AT OUTLET			
RICHARDSON SLOUGH	191.2	6'	6'	—	4'	—	—	—	—	—	CLASS I	2'	2		30 (0.001)	OUTLET APRON ONLY		
COON GULCH	191.5	6'	6'	—	4'	—	—	—	—	—	CLASS I	2'	2		30 (0.001)	OUTLET APRON ONLY		
OVER CREEK	194.0	10'	10'	—	5'	—	10'	—	—	—	CLASS I	2'	11		150 (0.003)	APRONS ONLY		
OVER CREEK COMPLEX	194.8	6'	6'	—	4'	—	6'	6'	—	—	CLASS I	2'	2		30 (0.001)	APRONS ONLY		
NUGGET CREEK	195.4	45'	45'	30'	15'-4"	30'	15'	45'	3'	CLASS II	3'	CLASS II	3'	702.00	6320 (0.145)	SPPA		
SHEEP CREEK	196.3	27'	27'	—	9'	—	27'	27'	—	—	CLASS II	3'		137.00	1240 (0.028)	APRONS ONLY. SWEETEN EXISTING ENERGY DISSIPATOR		
SUKAKPAK CREEK	202.7	—	—	—	10'-8"	—	10'	—	—	—	CLASS 1	2'	6		90 (0.002)	INLET APRON ONLY		
WEST FORK SUKAKPAK CREEK	204.0	10'	10'	8'	4'	8'	10'	10'	—	CLASS I	2'	CLASS 1	2'	57		770 (0.018)	*SEE 3 STEP VORTEX WEIR DETAIL FOR DIMENSIONS APPROXIMATELY 30 C.Y. OF VANE AND FOOTER ROCK	
BRICKMAN CREEK	208.3	*	*	—	12'	—	—	—	—	—	—	—	—		800.00	8640 (0.198)		
														TOTAL:	80	2,307.00	23,380 (0.536)	

** See corresponding Riprap Apron Dimensions figure, next sheet

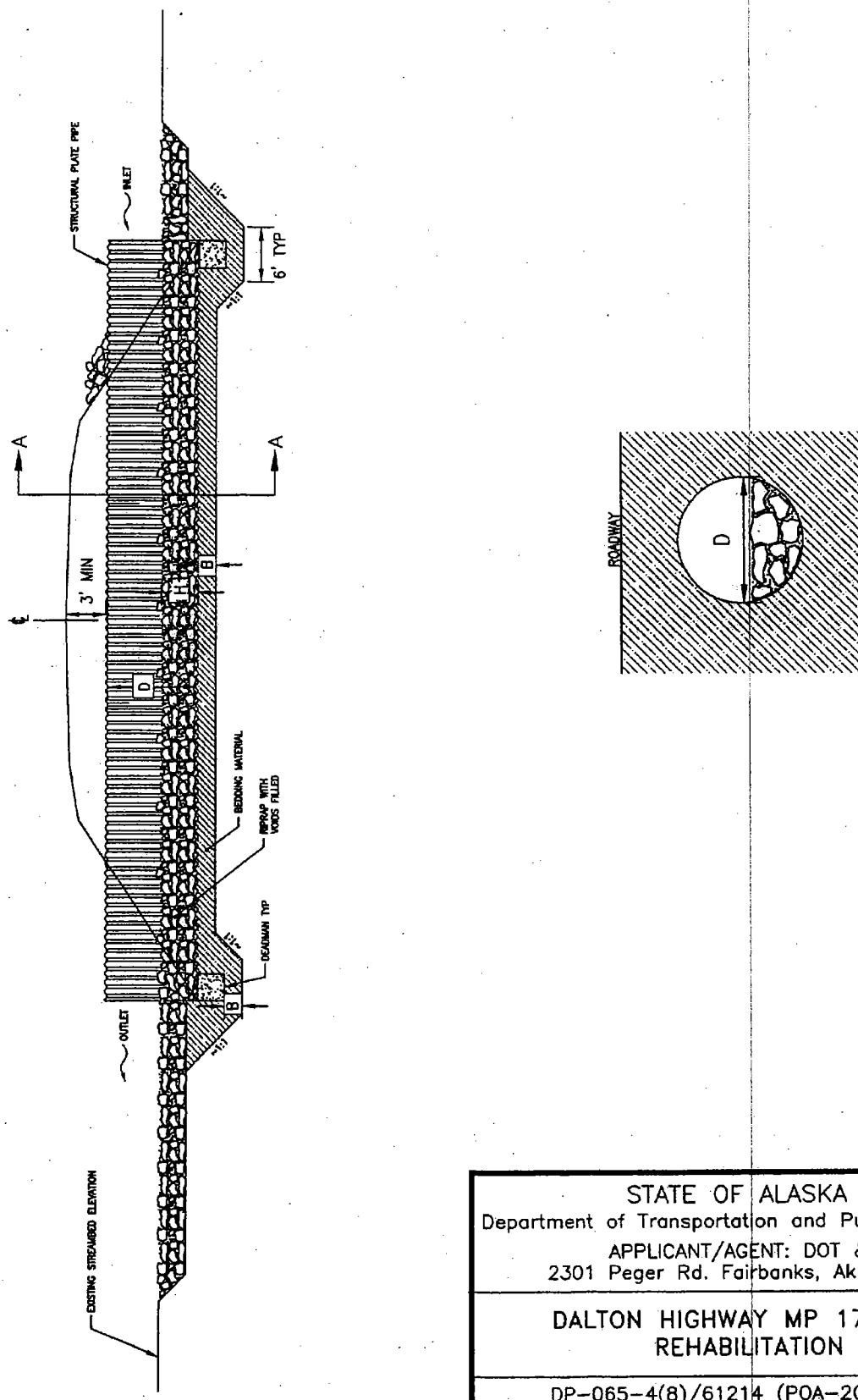


STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: DOT & PF 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175-209 REHABILITATION	
DP-065-4(8)/61214	(POA-2001-1161)
RIPRAP APRON	DIMENSIONS
DATE: 06/08/06	FIGURE C-1

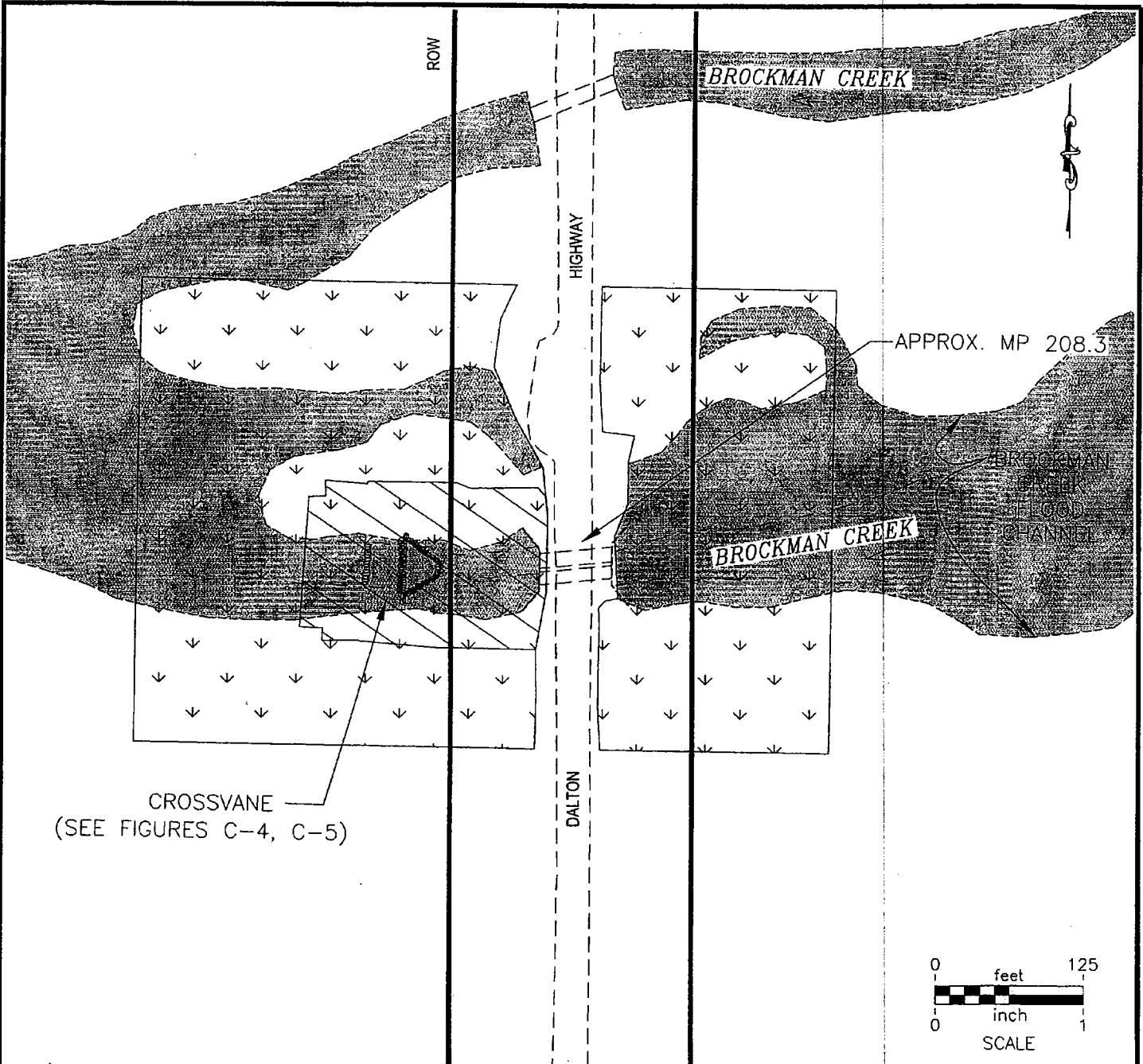
TABLE 3: DEPRESSED FISH CULVERT DIMENSIONS

DRAINAGE	Mile	D	H	B	CLASS I RIPRAP (CY)	CLASS II BARREL RIPRAP (CY)	COMMENTS
CLARA CREEK	176.38	9'4"	3.2'	2'		103.9	SPPA
FRY CREEK	189.72	7'	3'	2'		72.9	
ONE-O-ONE CREEK	191	5'	1'	2'		12.2	
RICHARDSON SLOUGH	191.2	4'	1'	2'	13.0		
COON GULCH	191.5	4'	1'	2'	9.5		
RAINBOW CREEK	193.1	7'	3'	2'		51.3	
OVER CREEK	194	5'	1'	2'	14.7		
OVER CREEK COMPLEX	194.8	4'	1.5'	2'	7.5		
NUGGET CREEK	195.41	10'4"	3'	2'		133.6	SPPA
	195.6	5'	2'	2'	23.9		
SHEEP CREEK	196.28	9'	2'	2'		31.2	
WEST FORK SUKAPAK CREEK	204	4'	1'	2'	9.1		

** See corresponding Depressed Fish
Culvert Dimensions figure, next sheet



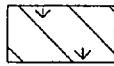
STATE OF	ALASKA
Department of Transportation and Public Facilities	
APPLICANT/AGENT:	DOT & PF 2301 Peger Rd. Fairbanks, Ak 99709
DALTON HIGHWAY MP 175-209 REHABILITATION	
DP-065-4(8)/61214 (POA-2001-1161)	
DEPRESSED FISH CULVERT DIMENSIONS	
DATE: 06/08/06	FIGURE C-2



LEGEND



WETLANDS/WATERS

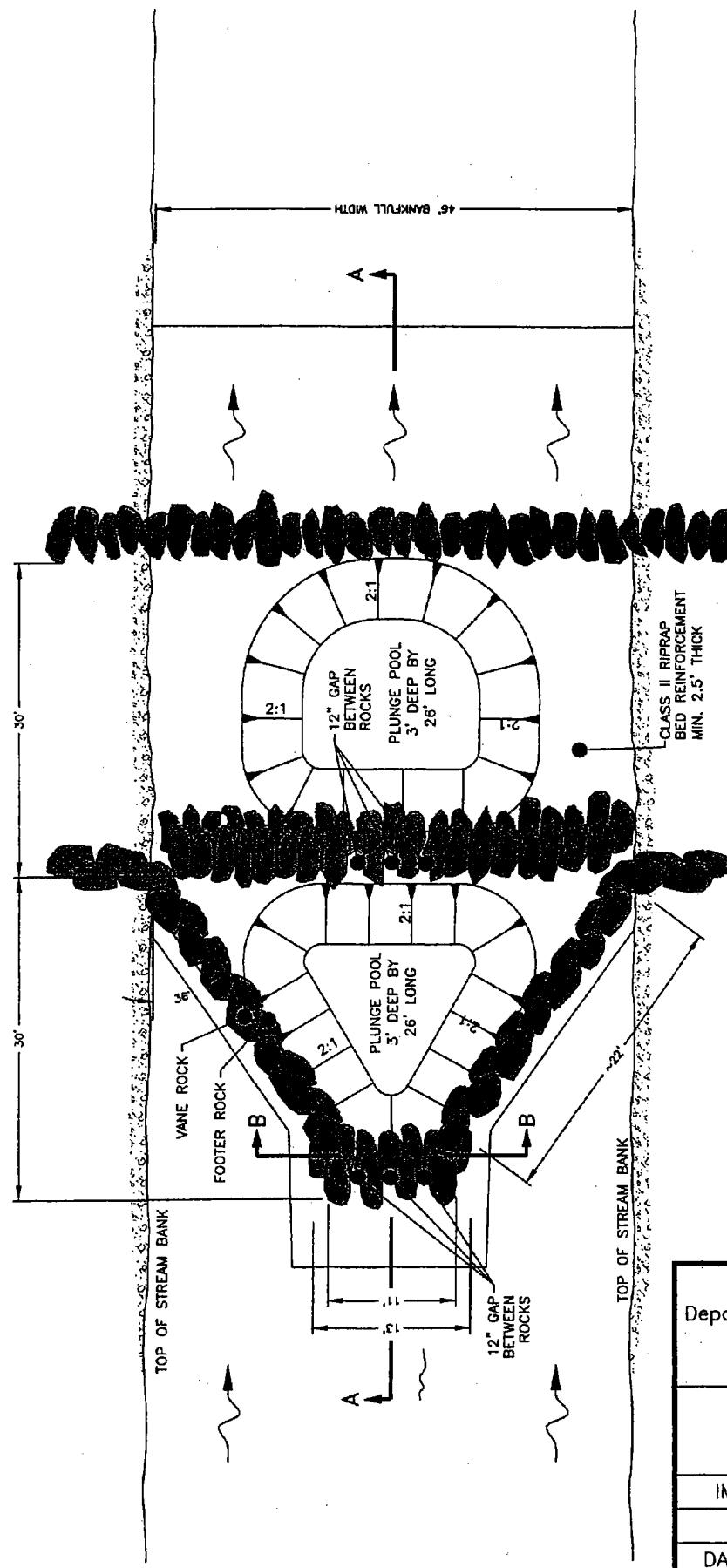


IMPACTED WETLANDS

BROCKMAN CREEK ENHANCEMENT

E $\frac{1}{2}$ NW $\frac{1}{4}$ & W $\frac{1}{2}$ NE $\frac{1}{4}$ SECT. 25
T33N, R10W, F.M.

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON	HIGHWAY
MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161)	
BROCKMAN CREEK ENHANCEMENT	
DATE: 09/15/06	FIGURE C-3



STATE OF ALASKA
Department of Transportation and Public Facilities
APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)

PLAN VIEW - CROSSVANE

DATE: 06/12/06

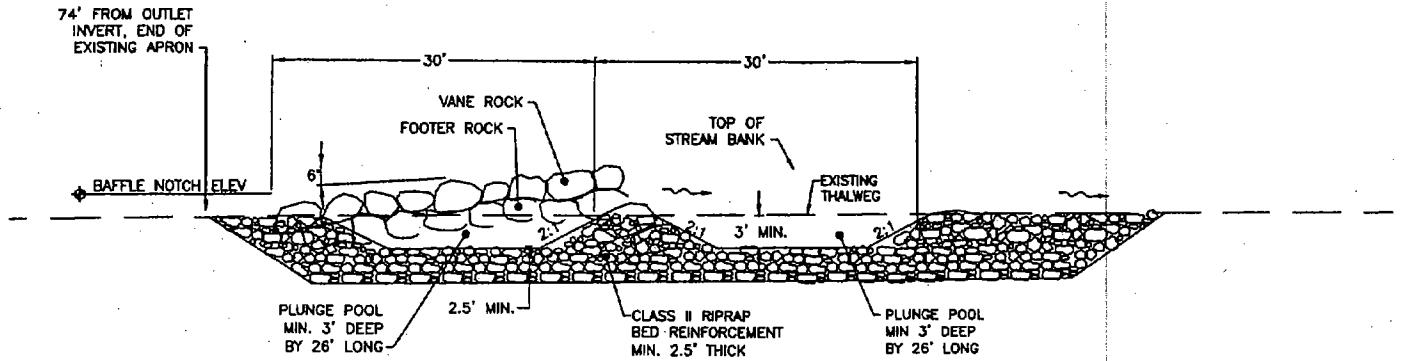
FIGURE C-4

CROSS VANE NOTES:

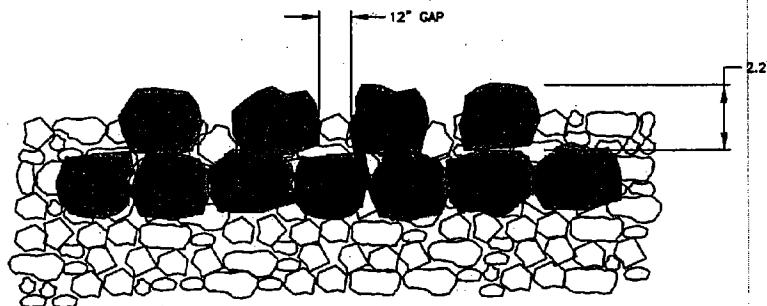
1. VANE ROCK SHOULD BE 1'-0" OR LESS ABOVE STREAMBED.
2. PLACE TOP OF FOOTER ROCKS ENTIRELY BELOW STREAMBED ELEVATION. USE LARGER ROCKS AS FOOTERS AND ALIGN LONG AXES POINTING UPSTREAM.
3. ALL DOWNSTREAM ANGLED VANE ARM AND FOOTER ROCKS SHOULD TOUCH ADJACENT ROCKS TO FORM A TIGHT FIT.
4. ALL VANE ROCKS, IN THE MIDDLE 1/3 OF THE CHANNEL (APEX), SHOULD HAVE A GAP OR NOTCH BETWEEN INDIVIDUAL ROCKS OF 12".
5. PLACE VANE ROCKS ON TOP OF FOOTER ROCKS SO THAT EACH VANE ROCK RESTS UPON TWO HALVES OF EACH FOOTER ROCK BELOW AND SO THAT THE VANE ROCK IS OFFSET IN THE UPSTREAM DIRECTION.
6. BUILD CUTOFF SILL FLUSH WITH GROUND ALONG ITS ENTIRE LENGTH.
7. GRADE MATERIAL EXCAVATED TO BLEND ON CATCH SLOPES OF NEW CHANNEL.

BROCKMAN CREEK ENHANCEMENT

$\frac{1}{2}NW\frac{1}{4}$ & $\frac{1}{2}NE\frac{1}{4}$ SECT. 25
T33N, R10W, F.M.



SECTION A-A FROM
CROSSVANE DRAWING



SECTION B-B FROM
CROSSVANE DRAWING

BROCKMAN CREEK ENHANCEMENT

E $\frac{1}{2}$ NW $\frac{1}{4}$ & W $\frac{1}{2}$ NE $\frac{1}{4}$ SECT. 25
T33N, R10W, F.M.

STATE OF ALASKA Department of Transportation and Public Facilities	
APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161)	
BROCKMAN CREEK ENHANCEMENT	
DATE: 06/12/06	FIGURE C-5

Dalton Hwy MP 175–209
 Footprints/Quantities for Riprap placement

Bridge Name from South to North	Bridge No.	Footprint		Volume	
		Total (acre)	Below AHW (acre)	Total (cy)	Below AHW (cy)
Slate Cr.Bridge	1332	0.005	0.005	30	30
Minnie Cr. Bridge	1335	none	none	none	none
Koyukuk bridge #1	1261	0.19	0.1	810	405
Hammond River Bridge	1336	none	none	none	none
Koyukuk Bridge # 2	1282	0.1	0.05	650	450
Gold Cr.Bridge	1514	0.006	0.002	20	5
Koyukuk Bridge #3	1283	0.15	0.06	910	595
Koyukuk Bridge #4	1284	0.5	0.26	1745	975
Dietrich River Bridge	1337	0.16	0.11	840	625
Total		1.111	0.587	5005	3085

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DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214	
FOOTPRINT/QUANITITIES FOR 9 BRIDGES	
DATE: 01/13/06	SHEET 3 of 41



200 0 100 200 300 FEET

STATE OF ALASKA
Department of Transportation and Public Facilities

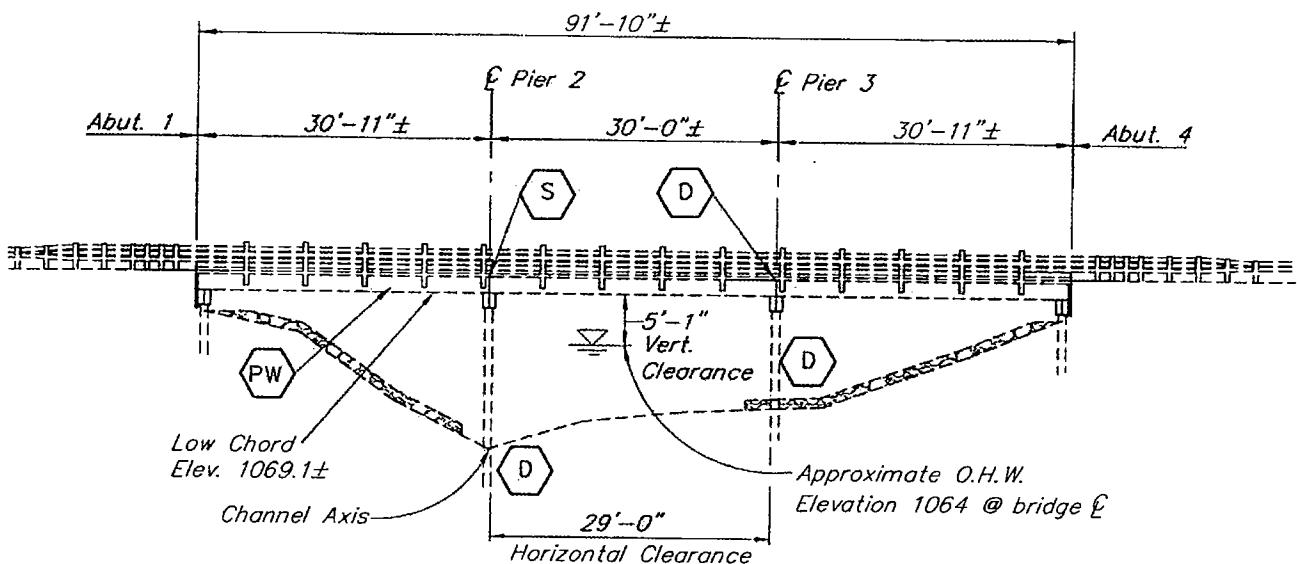
APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214

SLATE CREEK - BN 1332 MP 175

DATE: 01/24/06 SHEET 4 of 41

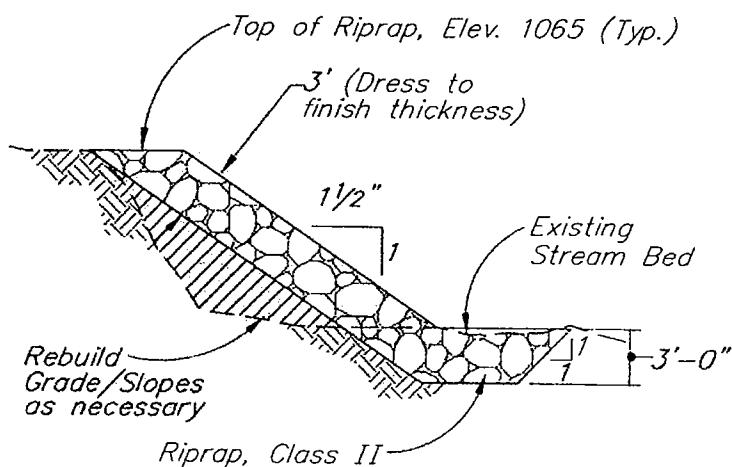


ELEVATION VIEW

10 0 20 40
Feet

LEGEND

- (C) - Install New Expansion Joint Compression Seal
- (D) - Remove Debris
- (PW) - Pressure Wash All Superstructure Steel and Bearings
- (S) - Install New Deck Joint Sealant



RIPRAP DETAIL

12 0 5 10 15 20
In. Feet

NOTES:

----- = As built
— = Proposed

STATE OF ALASKA
Department of Transportation and Public Facilities
APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

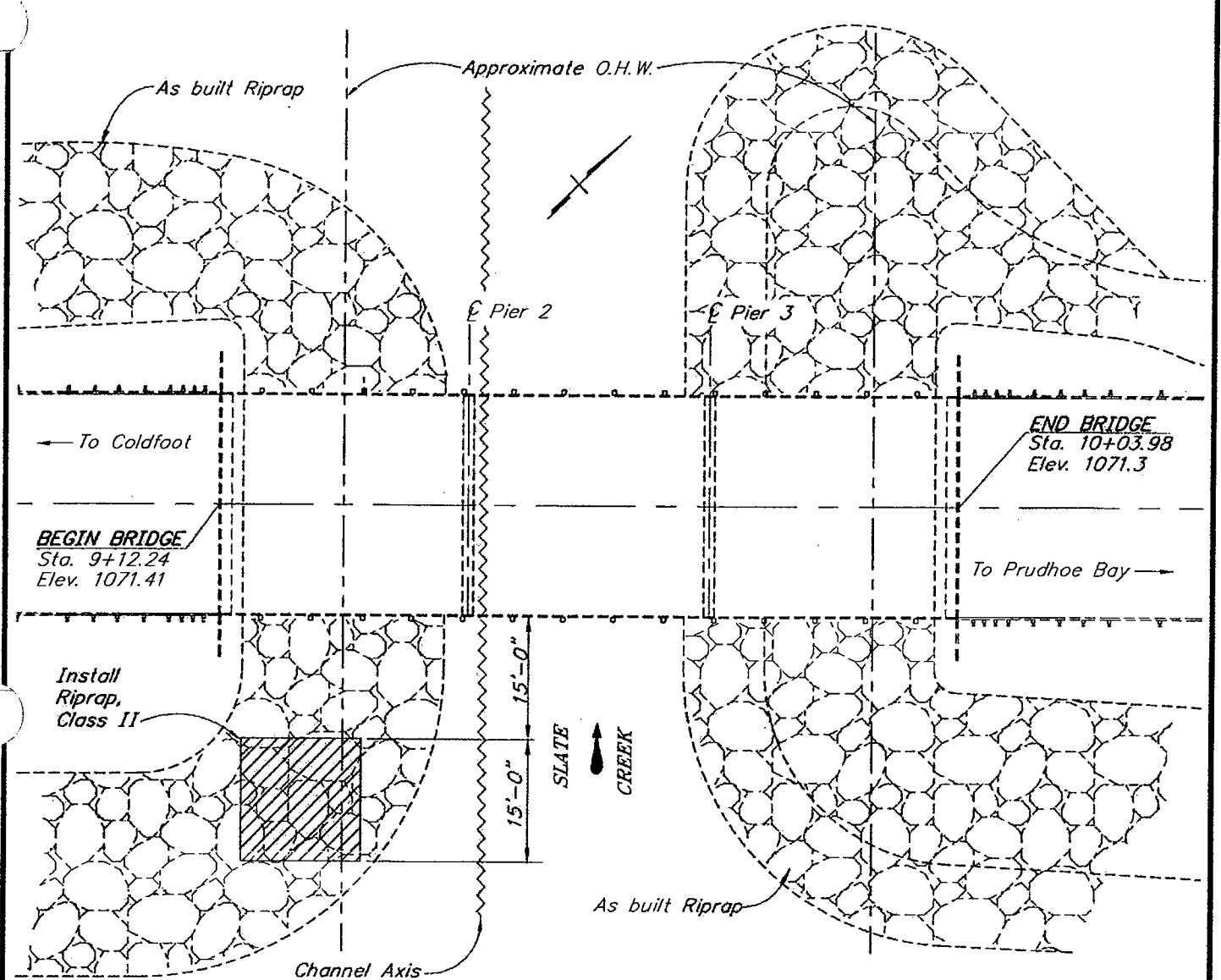
DALTON HIGHWAY
MILEPOST 175-209

IM-DP-065-4(B)/61214

SLATE CREEK - BN1332 MP 175

DATE: 1/13/06

Sheet 6 of 41.



PLAN VIEW

10 0 20 40
Feet

NOTES:

----- = As built

_____ = Proposed

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MILEPOST 175-209	
IM-DP-065-4(8)/61214	
SLATE CREEK - BN1332 MP 175	DATE: 1/13/06
Sheet 7 of 41	



200 0 100 200 400
FEET

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

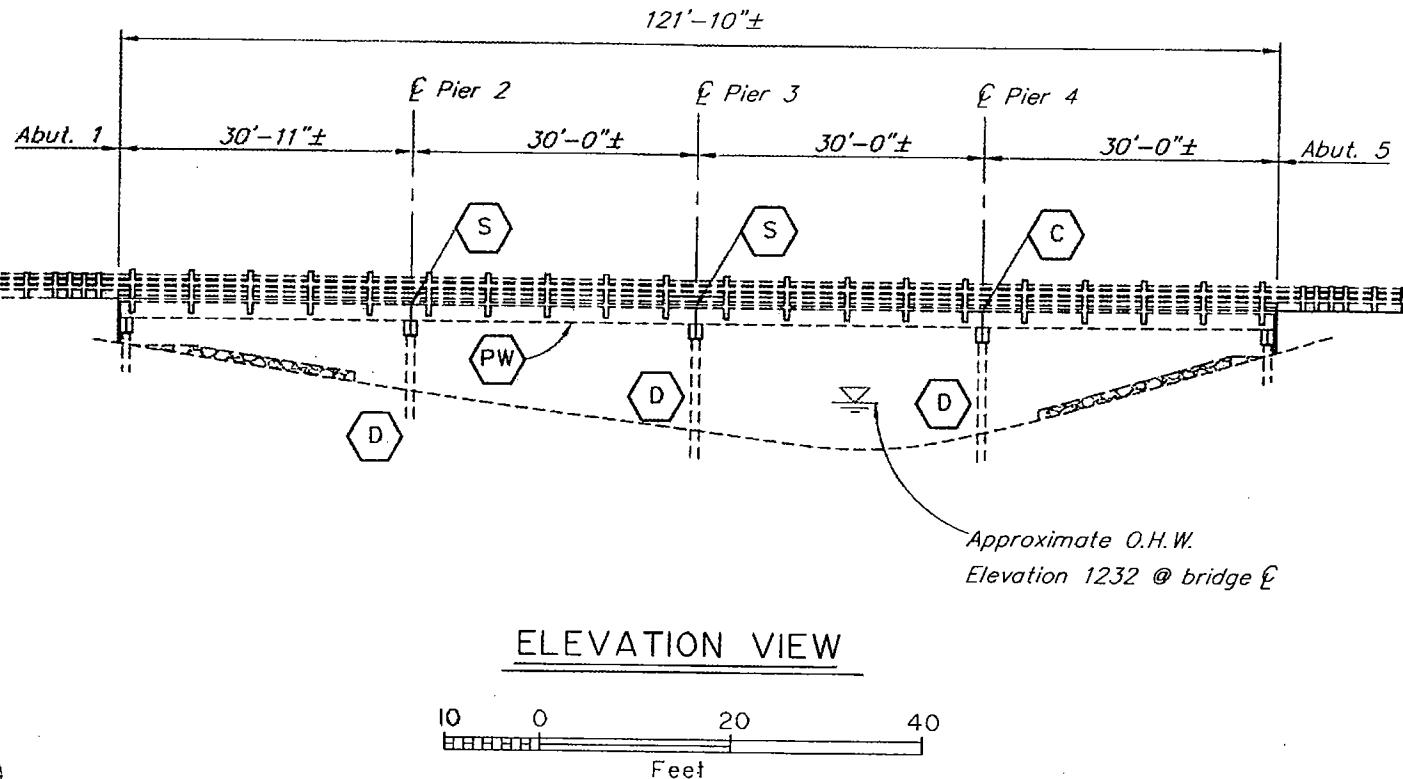
DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214

MINNIE CREEK - BN 1335 MP 187

DATE: 01/25/06

SHEET 8 of 41



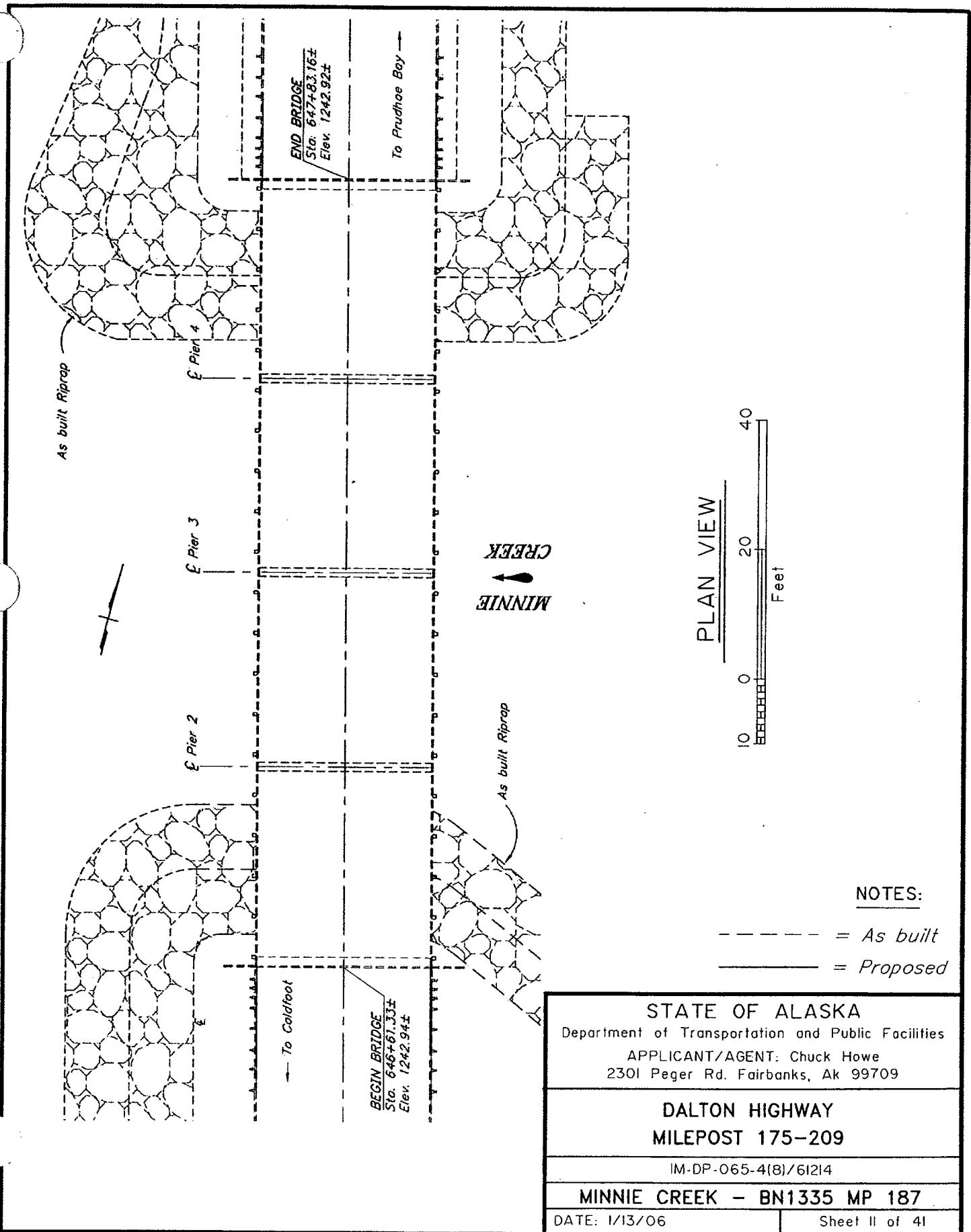
LEGEND

- [C] - Install New Expansion Joint Compression Seal
- [D] - Remove Debris
- [PW] - Pressure Wash All Superstructure Steel and Bearings
- [S] - Install New Deck Joint Sealant

NOTES:

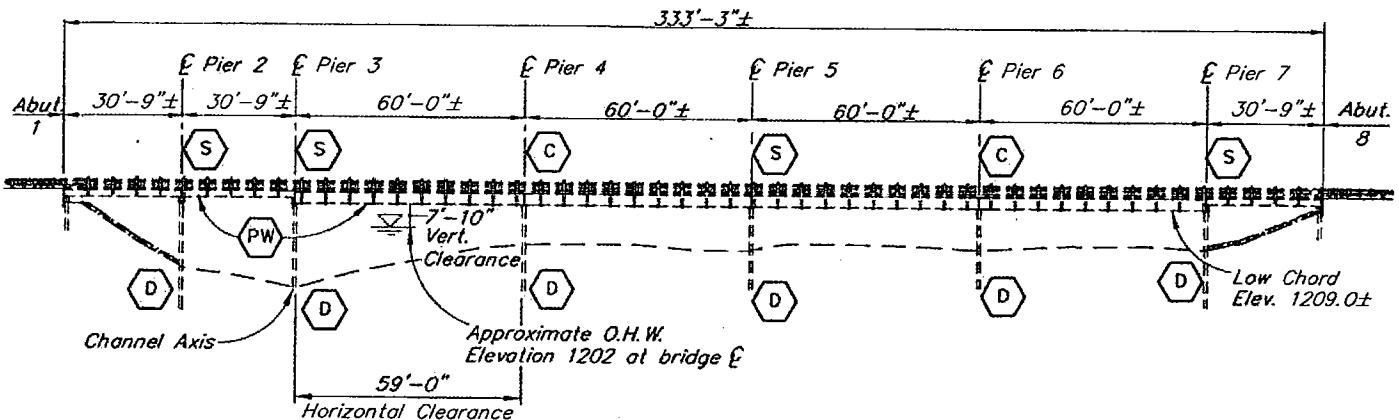
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— — — — — = Proposed

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MILEPOST 175-209	
IM-DP-065-4(8)/61214	
MINNIE CREEK - BN1335 MP 187	
DATE: 1/13/06	Sheet 10 of 41





STATE OF ALASKA	
Department of Transportation and Public Facilities	
APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214	
MIDDLE FORK #1 KOYUKUK RIVER - BN 1261 MP 188	
DATE: 01/25/06	SHEET 12 of 41



ELEVATION VIEW

20 10 0 50 100
Feet

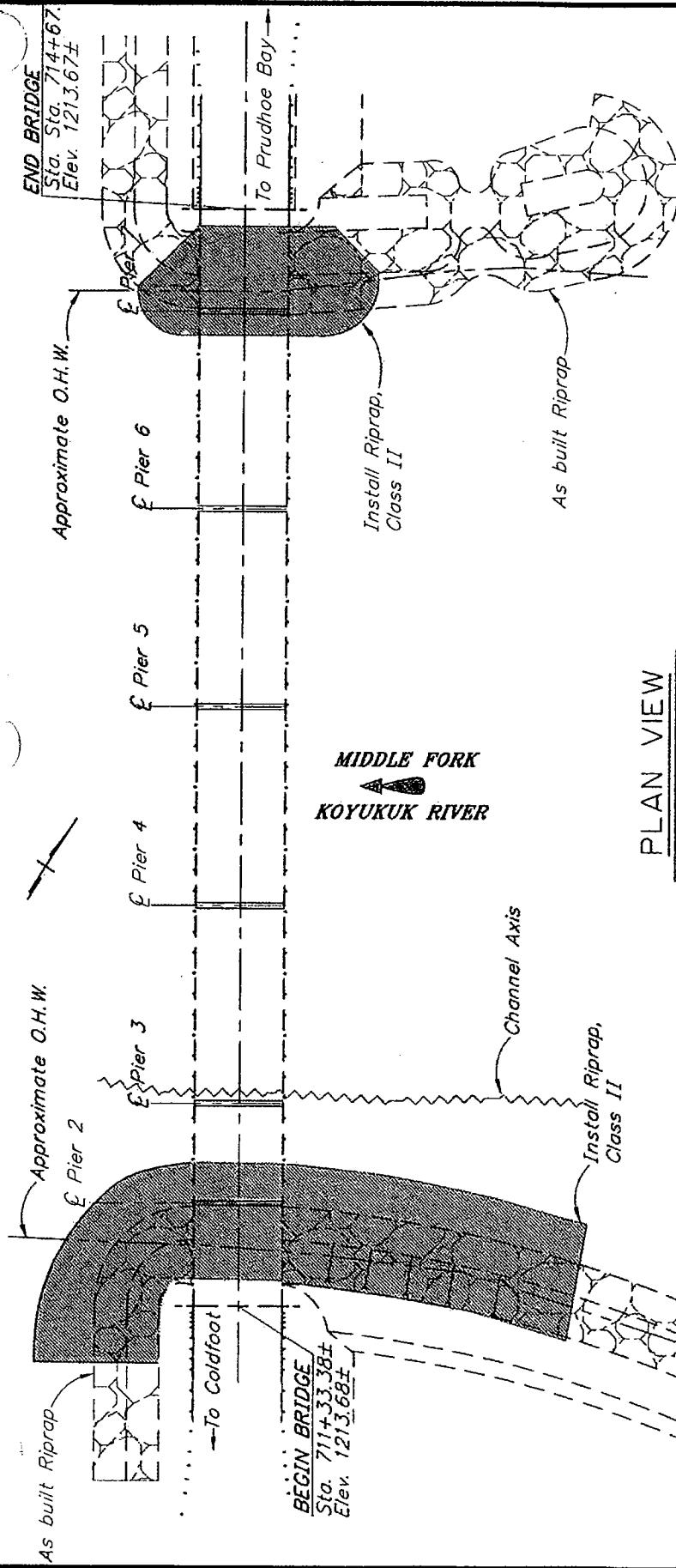
LEGEND

- C** — Install New Expansion Joint Compression Seal
- D** — Remove Debris
- PW** — Pressure Wash All Superstructure Steel and Bearings
- S** — Install New Deck Joint Sealant

NOTES:

— — — — = As built
— — — — — = Proposed

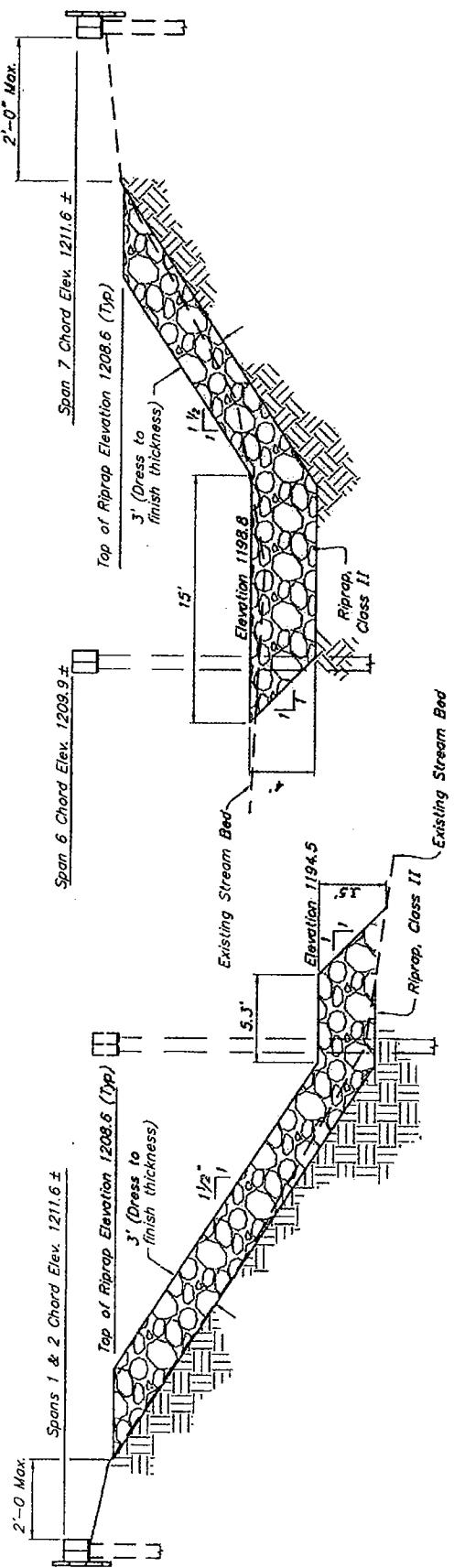
STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MILEPOST 175-209	
IM-DP-065-4(8)/61214	
MIDDLE FORK KOYUKUK RIVER 1 — BN1261 MP 188	
DATE: 1/13/06	Sheet 14 of 41



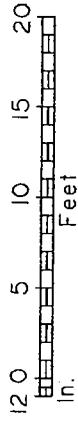
NOTES:

— = As built
— = Proposed

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DALTON HIGHWAY MILEPOST 175-209	
IM-DP-065-4(8)/61214	
MIDDLE FORK KOYUKUK RIVER 1 - BN1261 MP 188	
DATE: 1/13/06	Sheet 15 of 41



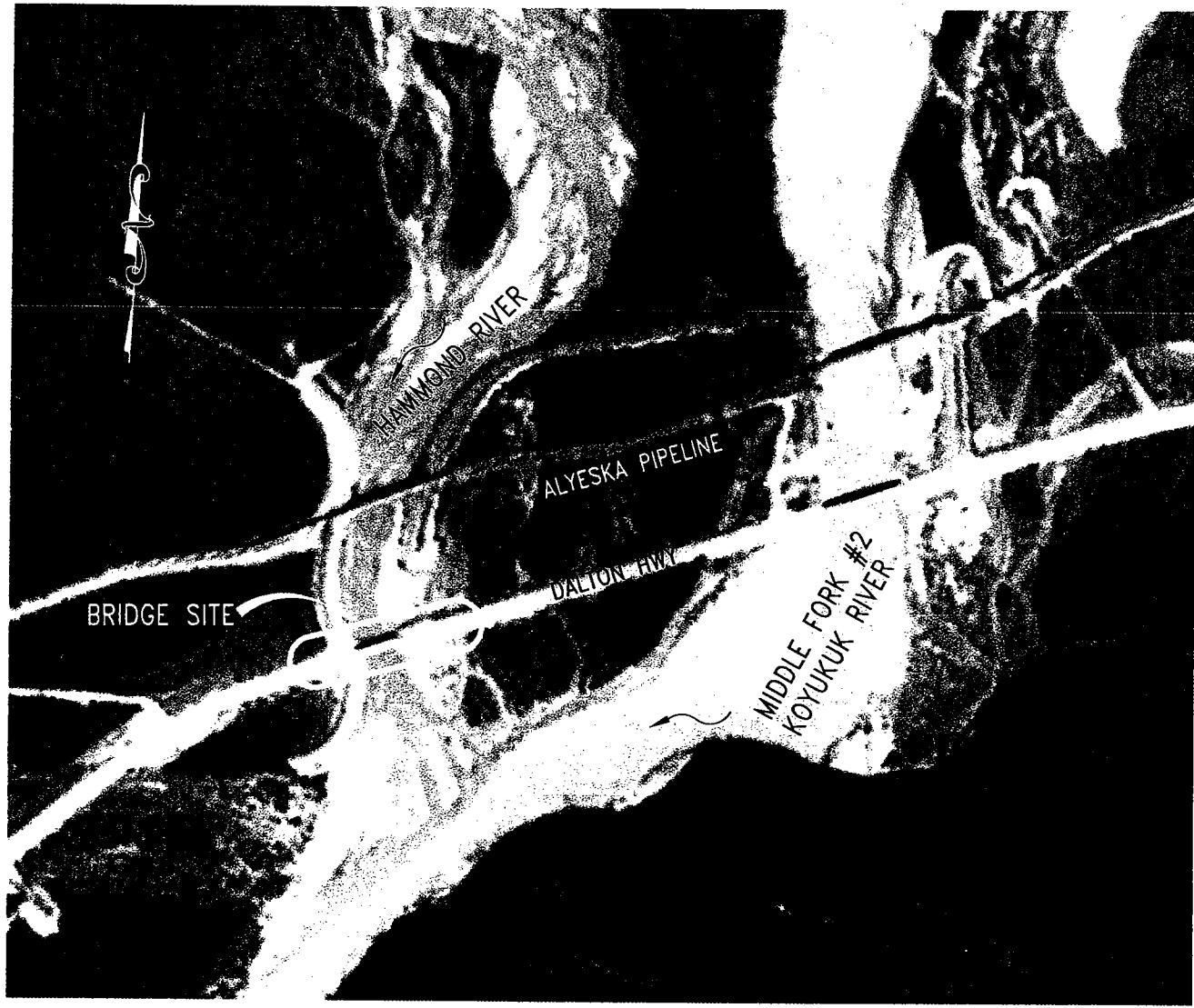
RIPRAP DETAIL



NOTES:

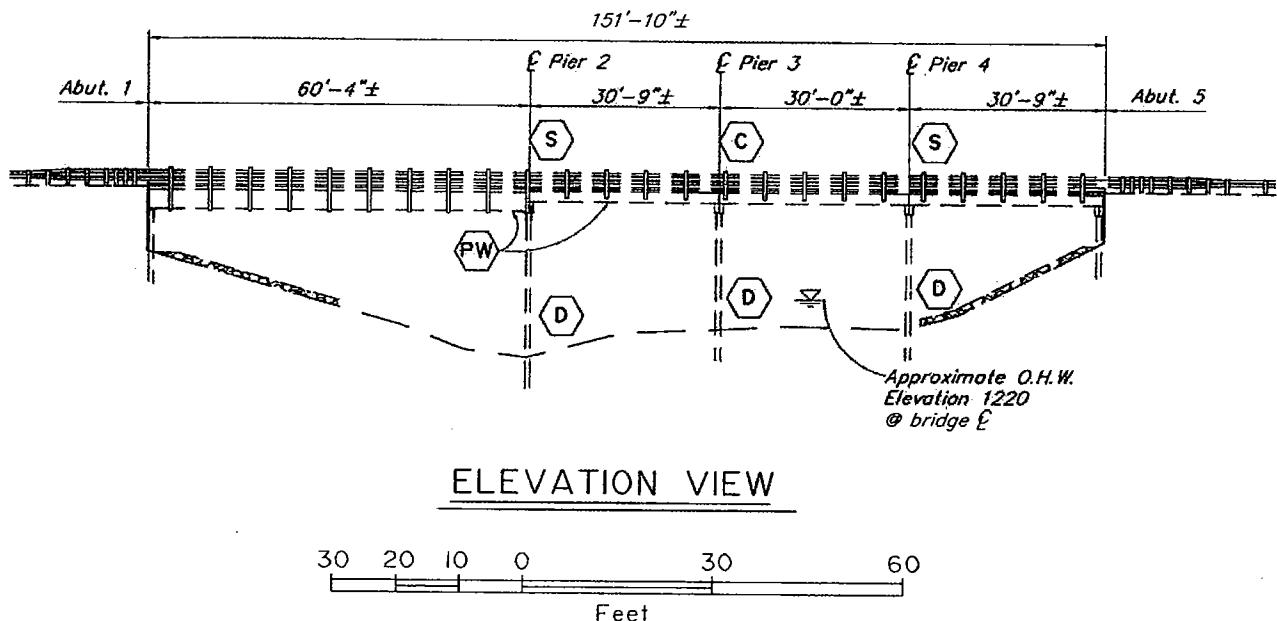
- = As built
- = Proposed

STATE OF ALASKA	
Department of Transportation and Public Facilities	
APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY	
MILEPOST 175-209	
IM-DP-065-4(8)/61214	
MIDDLE FORK	
KOYUKUK RIVER 1 - BN1261 MP 188	
DATE: 1/13/06	Sheet 16 of 41



200 0 100 200 300 400
FEET

STATE OF ALASKA	
Department of Transportation and Public Facilities	
APPLICANT/AGENT: Chuck Howe	
2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY	
MP 175 TO MP 209	
IM-DP-065-4(8)/61214	
HAMMOND RIVER - BN 1336 MP 190.5	
DATE: 01/25/06	SHEET 17 of 41



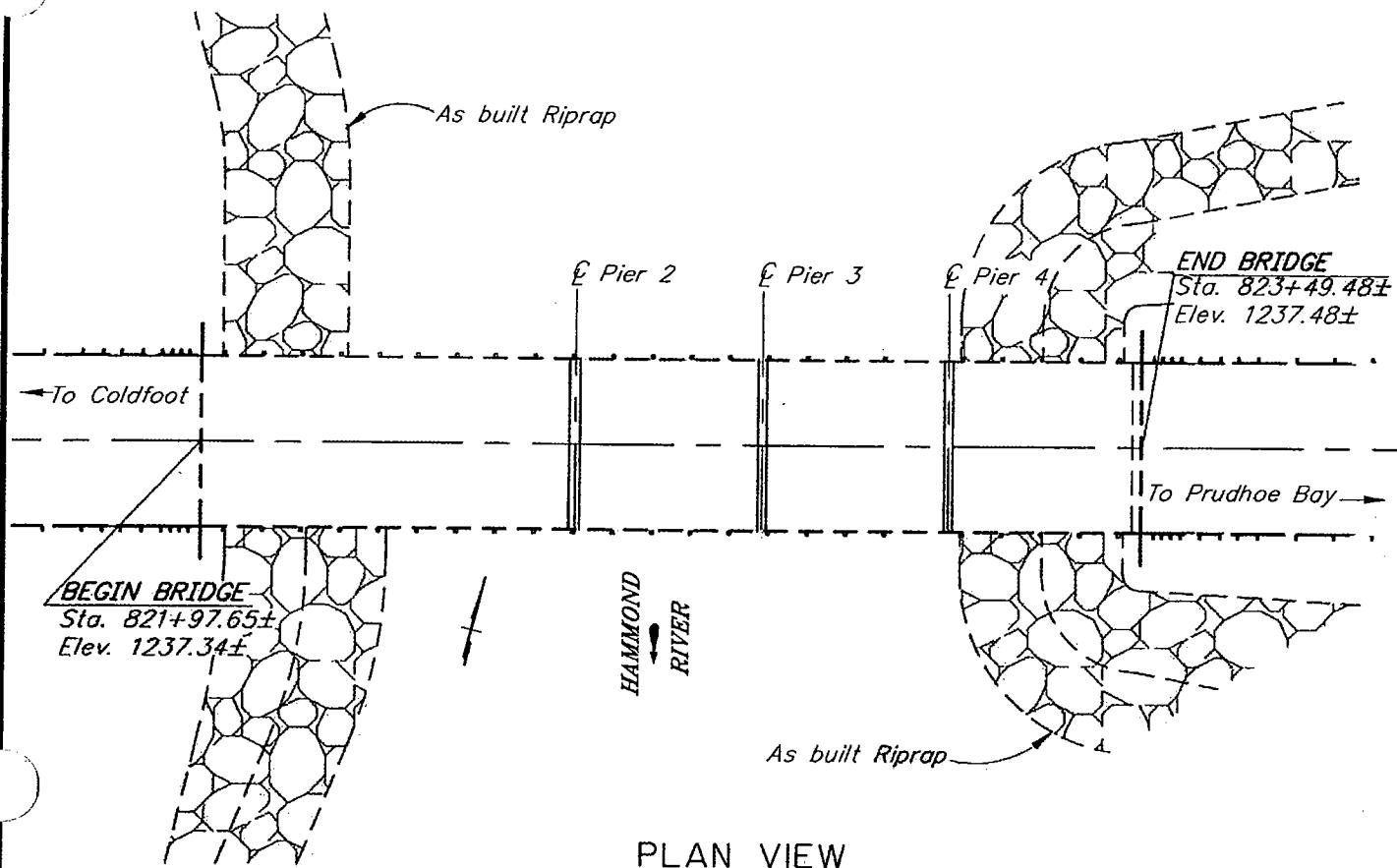
LEGEND

- [C] - Install New Expansion Joint Compression Seal
- [D] - Remove Debris
- [PW] - Pressure Wash All Superstructure Steel and Bearings
- [S] - Install New Deck Joint Sealant

NOTES:

— — — = As built
— — — = Proposed

STATE OF ALASKA	
Department of Transportation and Public Facilities	
APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY	
MILEPOST 175-209	
IM-DP-065-4(8)/61214	
HAMMOND RIVER - BN1336 MP 190.5	
DATE: 1/13/06	Sheet 19 of 41



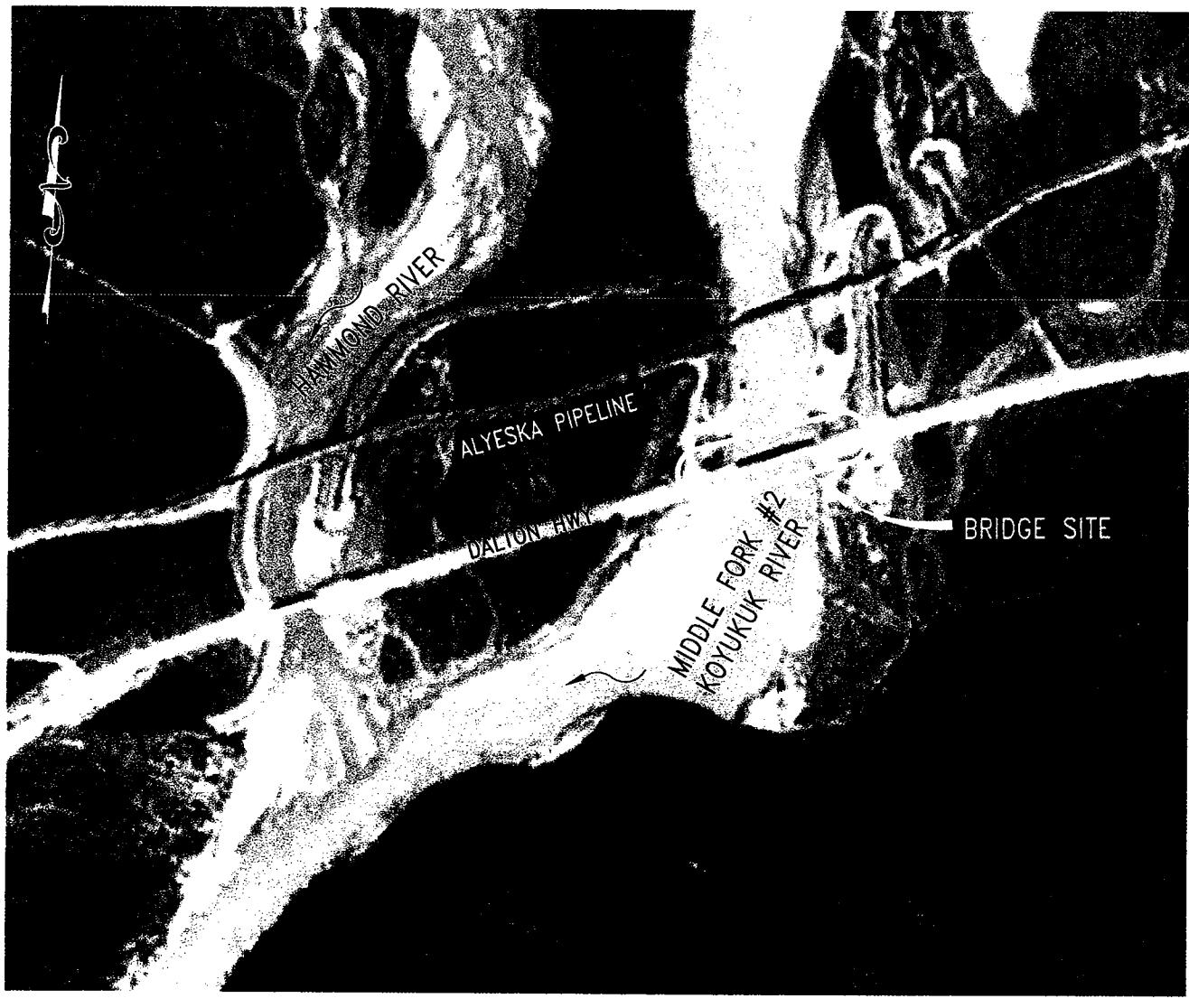
PLAN VIEW

30 20 10 0 30 60
Feet

NOTES:

— — — = As built
— — — = Proposed

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MILEPOST 175–209	
IM-DP-065-4(8)/61214	
HAMMOND RIVER – BN1336 MP 190.5	
DATE: 1/13/06	Sheet 20 of 41



200 0 100 200 400
FEET

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

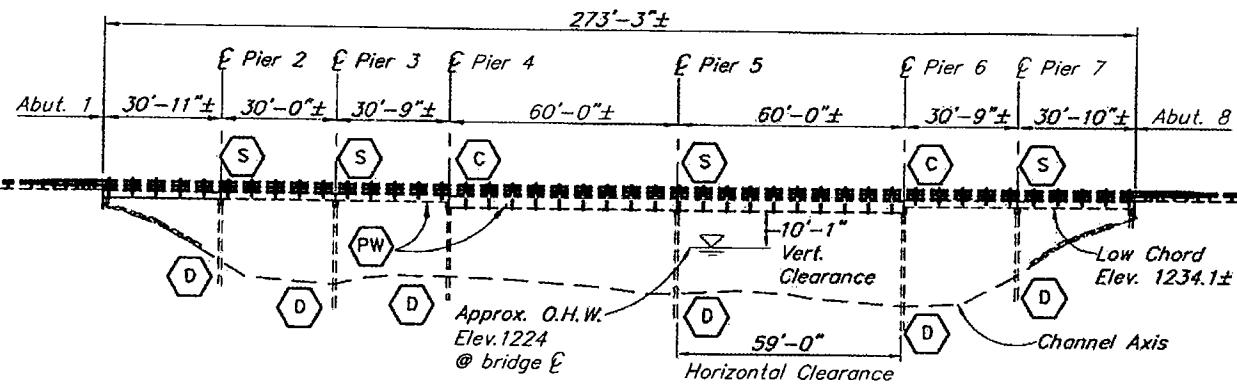
DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214

MIDDLE FORK #2 KOYUKUK RIVER
BN 1282 MP 191

DATE: 01/25/06

SHEET 21 of 41

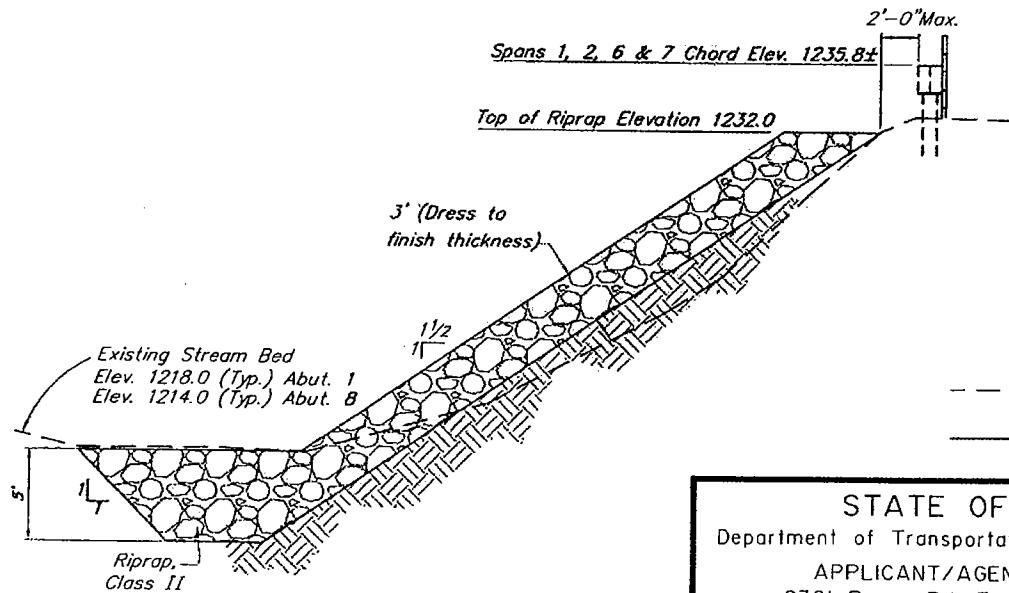


ELEVATION VIEW

20 10 0 50 100
Feet

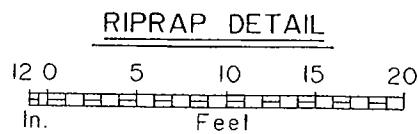
LEGEND

- [C] - Install New Expansion Joint Compression Seal
- [D] - Remove Debris
- [PW] - Pressure Wash All Superstructure Steel and Bearings
- [S] - Install New Deck Joint Sealant

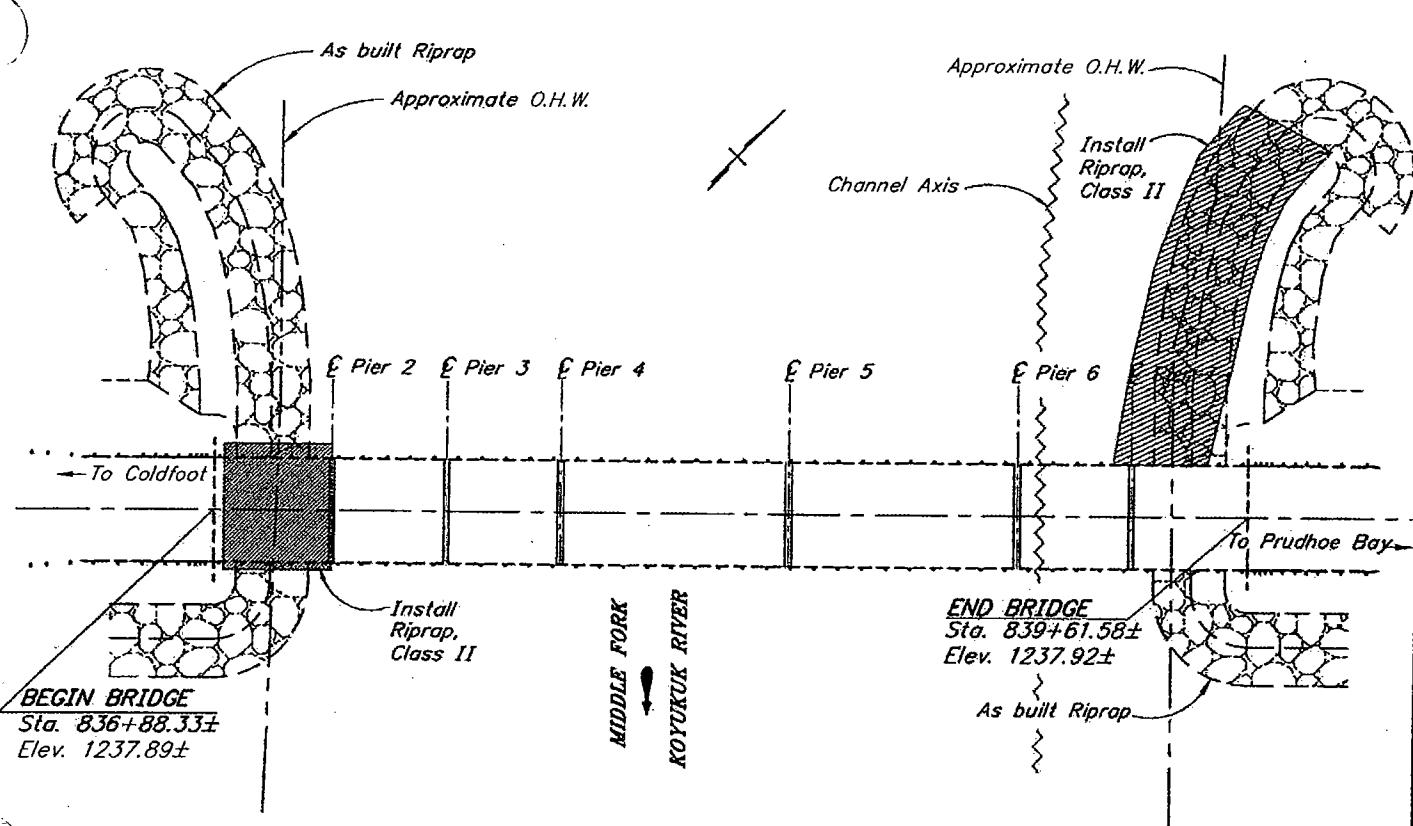


NOTES:

- = As built
_____ = Proposed



STATE OF ALASKA	
Department of Transportation and Public Facilities	
APPLICANT/AGENT: Chuck Howe	
2301 Peger Rd.	Fairbanks, AK 99709
DALTON HIGHWAY	
MILEPOST 175-209	
IM-DP-065-4(8)/61214	
MIDDLE FORK	
KOYUKUK RIVER 2 - BN1282 MP 191	
DATE: 1/13/06	Sheet 23 of 41



PLAN VIEW

20 10 0 50 100
Feet

NOTES:

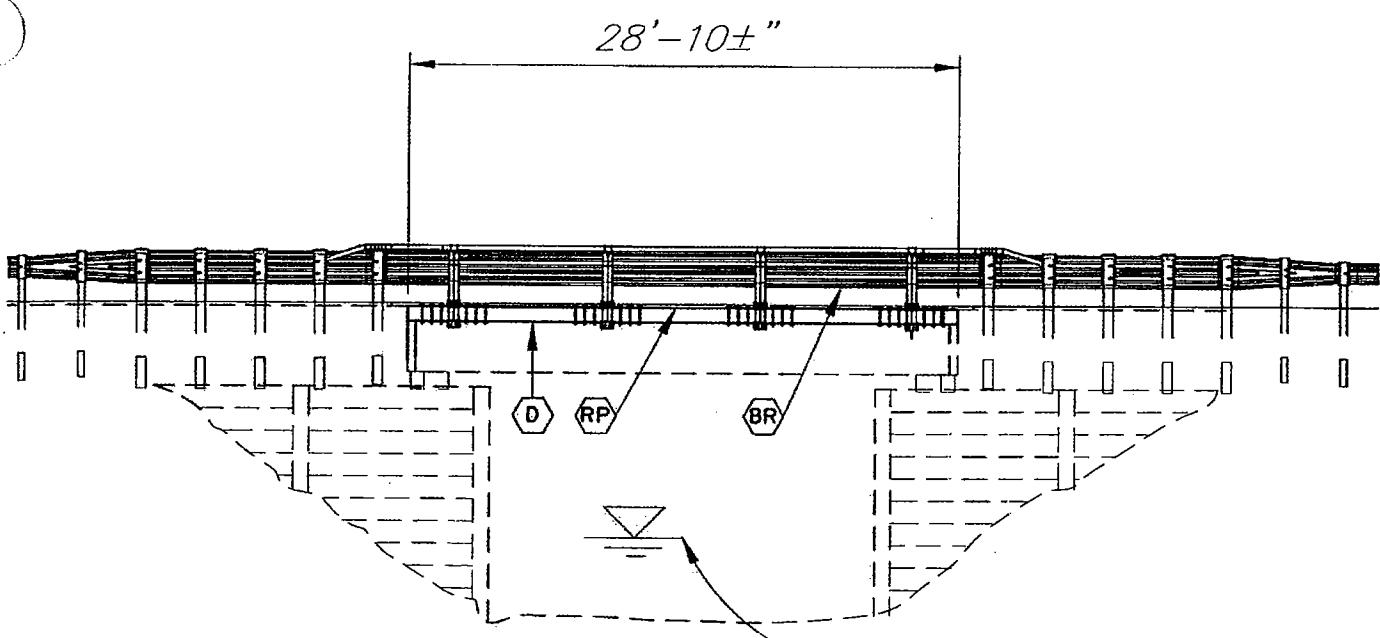
- — — — = As built
— — — = Proposed

STATE OF ALASKA	
Department of Transportation and Public Facilities	
APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY	
MILEPOST 175-209	
IM-DP-065-4(8)/61214	
MIDDLE FORK	
KOYUKUK RIVER 2 - BN1282 MP 191	
DATE: 1/13/06	Sheet 24 of 41



200 0 100 200 400
FEET

STATE OF ALASKA	
Department of Transportation and Public Facilities	
APPLICANT/AGENT: Chuck Howe	
2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY	
MP 175 TO MP 209	
IM-DP-065-4(8)/61214	
GOLD CREEK - BN 1514 MP 197	
DATE: 01/25/06	SHEET 25 of 41



*Approximate O.H.W.
Elevation 1329
@ bridge E*

ELEVATION VIEW

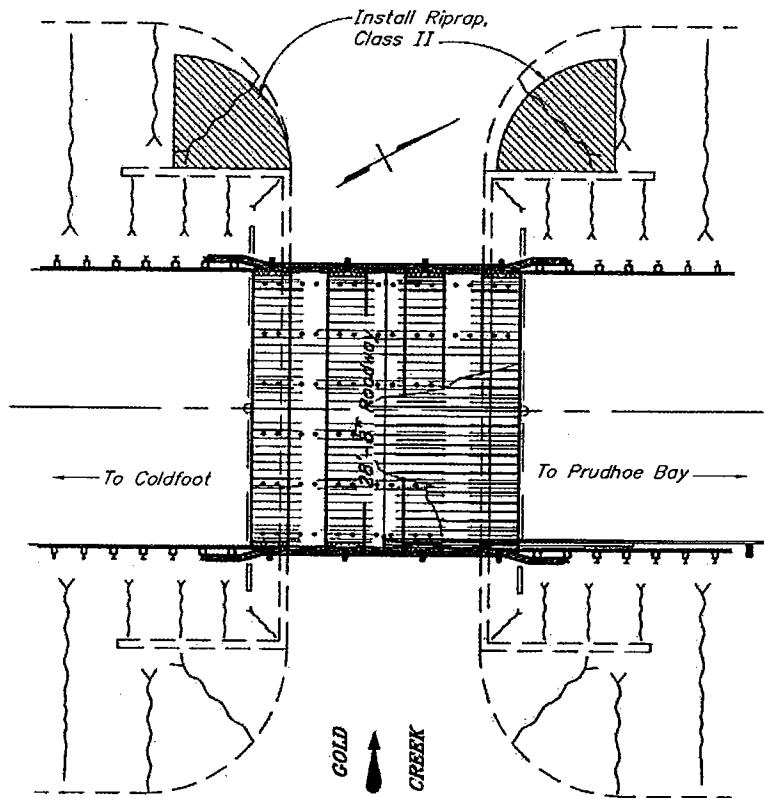


LEGEND	
(D)	- New Deck Panels
(RP)	- New Running Planks
(BR)	- Install New Bridge Rail

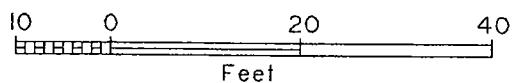
NOTES:

— — — = As built
— — — = Proposed

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MILEPOST 175-209	
IM-DP-065-4(8)/61214	
GOLD CREEK - BN1514 MP 197	
DATE: 1/13/06	Sheet 27 of 41



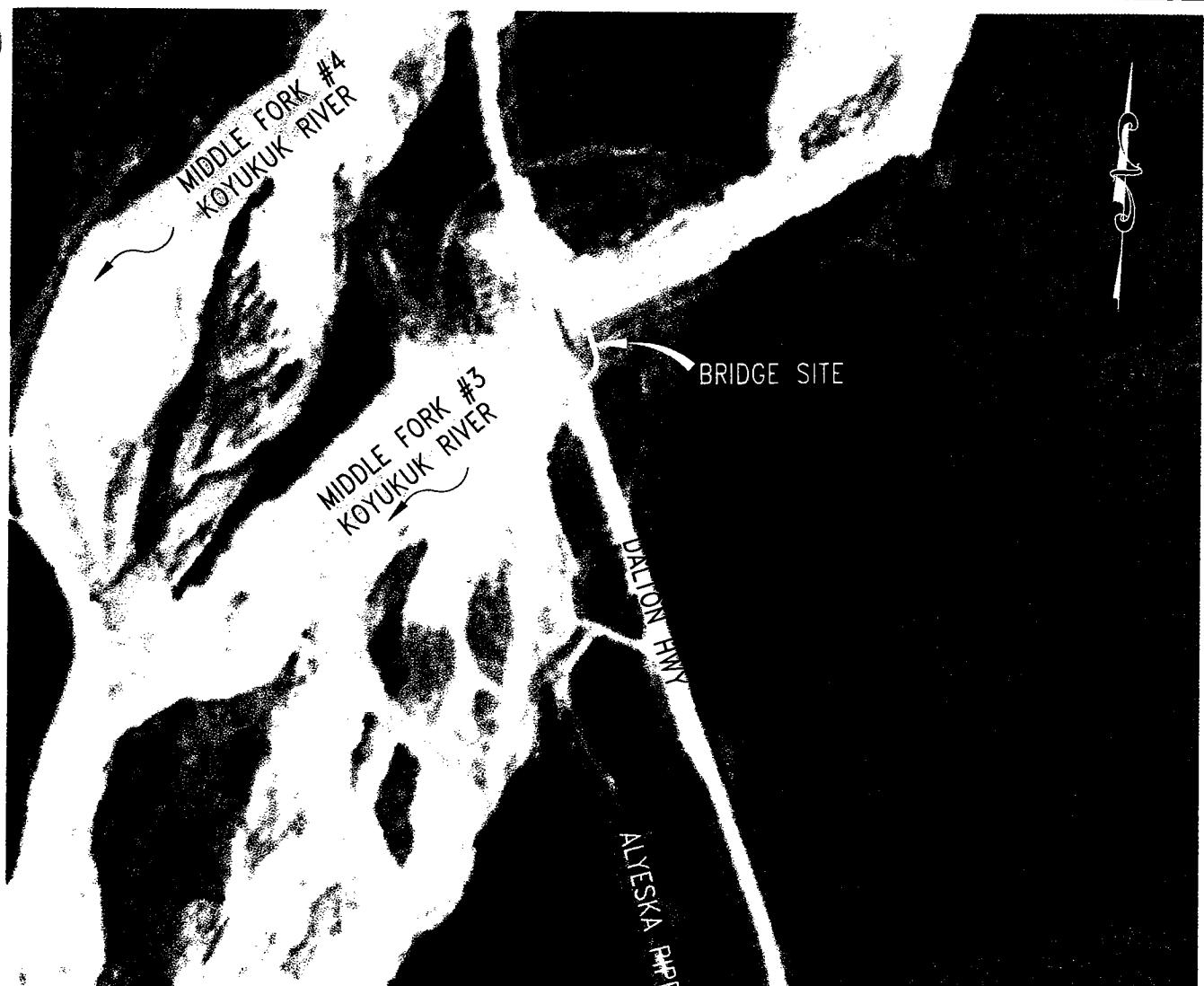
PLAN VIEW



NOTES:

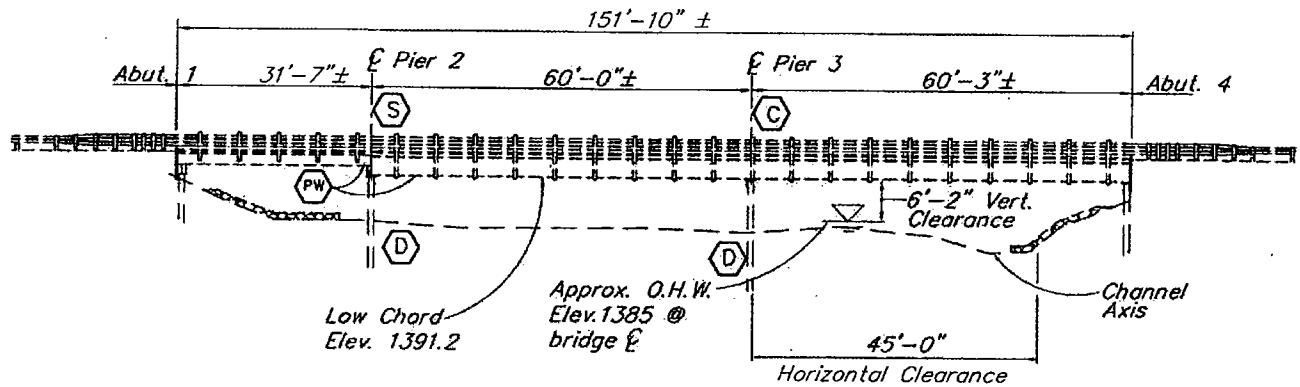
- — — = As built
 _____ = Proposed

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MILEPOST 175-209	
IM-DP-065-4(8)/61214	
GOLD CREEK - BN1514 MP 197	
DATE: 1/13/06	Sheet 28 of 41



200 0 100 200 400
FEET

STATE OF ALASKA	
Department of Transportation and Public Facilities	
APPLICANT/AGENT: Chuck Howe	
2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY	
MP 175 TO MP 209	
IM-DP-065-4(8)/61214	
MIDDLE FORK #3 KOYUKUK RIVER -	
BN 1283 MP 204	
DATE: 01/25/06	SHEET 29 of 41

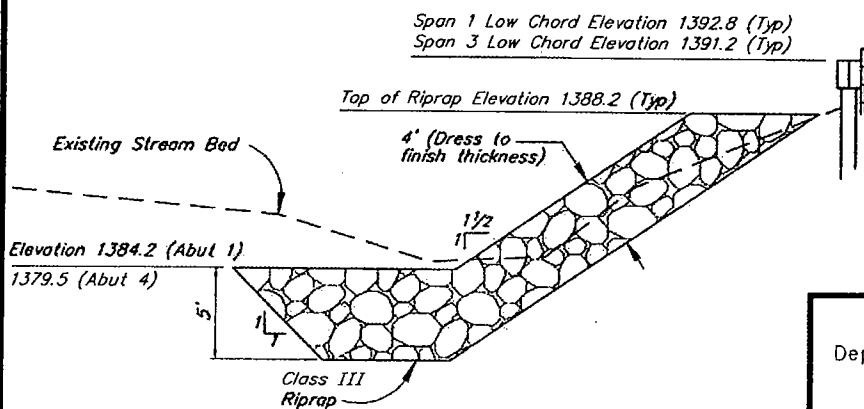


ELEVATION VIEW

30 20 10 0 30 60
Feet

LEGEND

- (C) - Install New Expansion Joint Compression Seal
- (D) - Remove Debris
- (PW) - Pressure Wash All Superstructure Steel and Bearings
- (S) - Install New Deck Joint Sealant



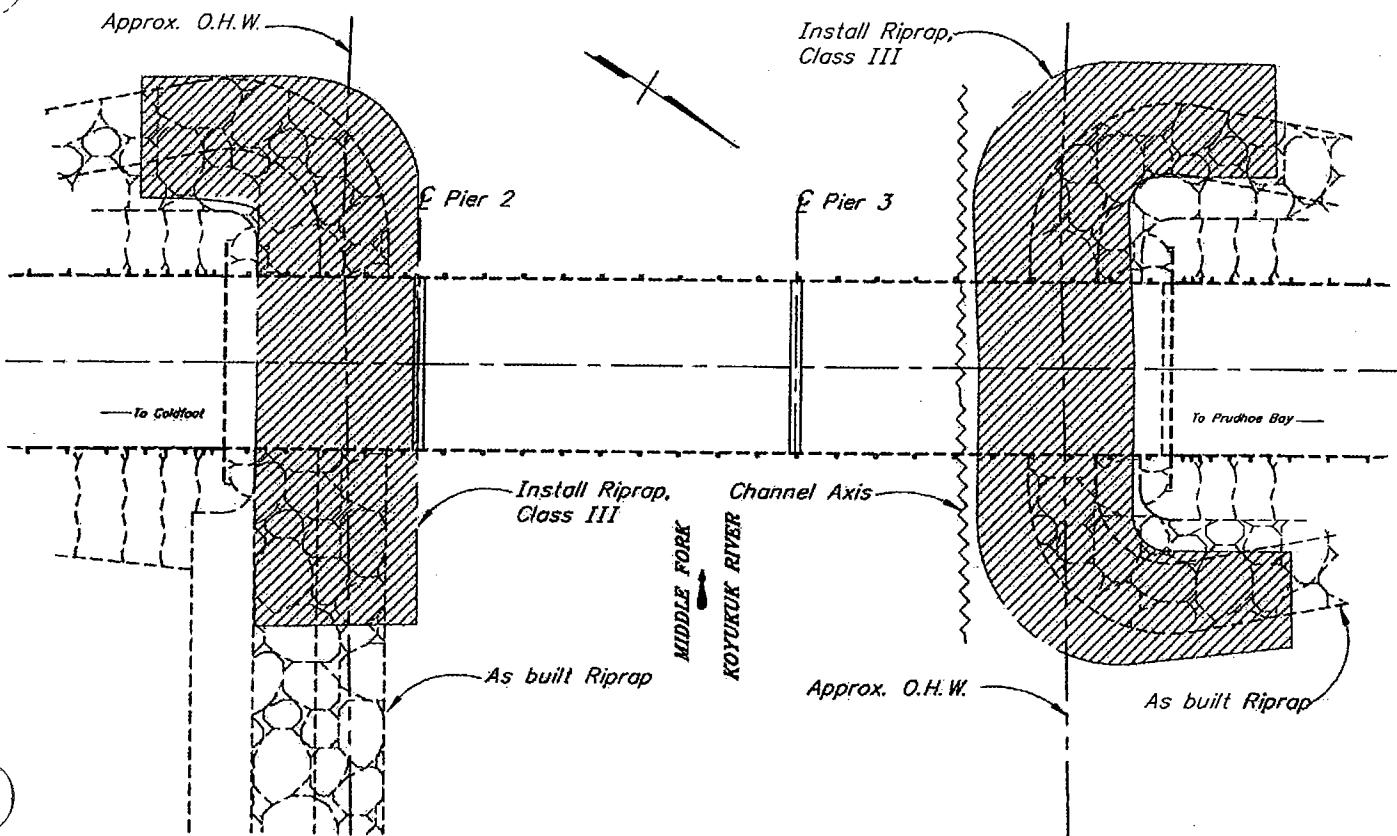
NOTES:

- = As built
_____ = Proposed

RIPRAP DETAIL

12 0 5 10 15 20
In. Feet

STATE OF ALASKA	
Department of Transportation and Public Facilities	
APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY	
MILEPOST 175-209	
IM-DP-065-4(8)/61214	
MIDDLE FORK	
KOYUKUK RIVER 3 - BN1283 MP 204	
DATE: 1/13/06	Sheet 31 of 41



PLAN VIEW.



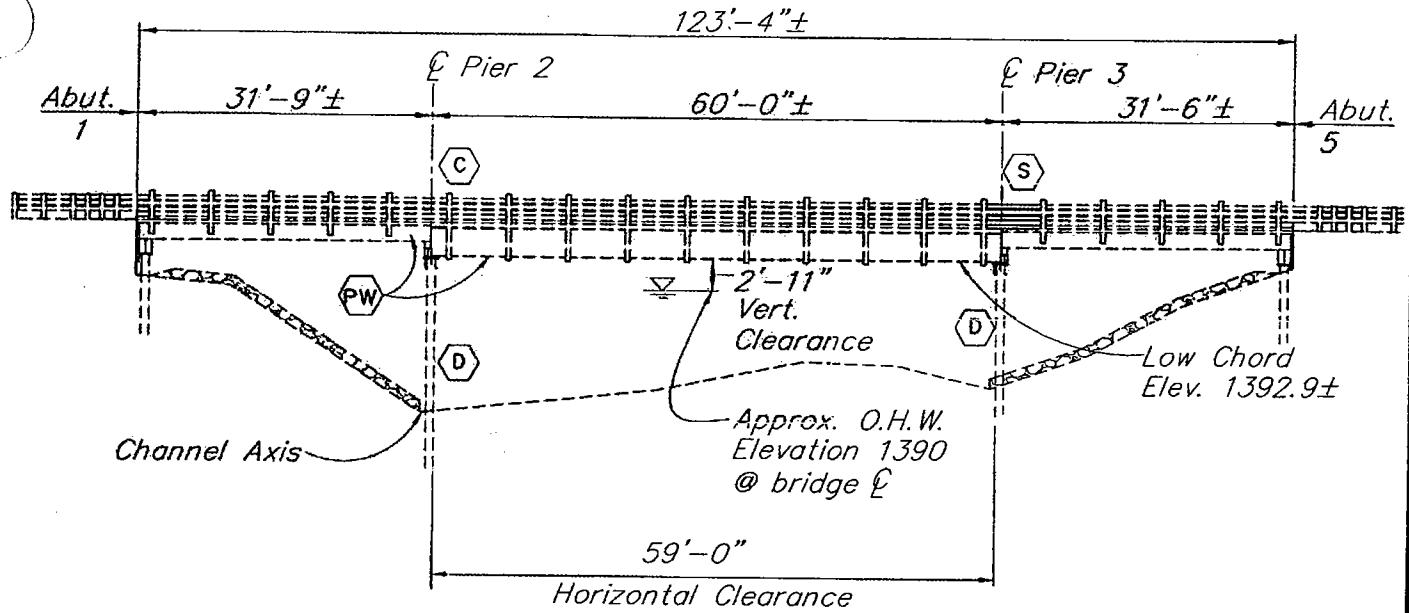
NOTES:

----- = As built
 _____ = Proposed

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MILEPOST 175-209	
IM-DP-065-4(8)/61214	
MIDDLE FORK KOYUKUK RIVER 3 - BN1283 MP 204	
DATE: 1/13/06	Sheet 32 of 41



STATE OF ALASKA	
Department of Transportation and Public Facilities	
APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214	
MIDDLE FORK #4 KOYUKUK RIVER - BN 1284 MP 204.5	
DATE: 01/25/06	SHEET 33 of 41



ELEVATION VIEW

10 0 20 40
Feet

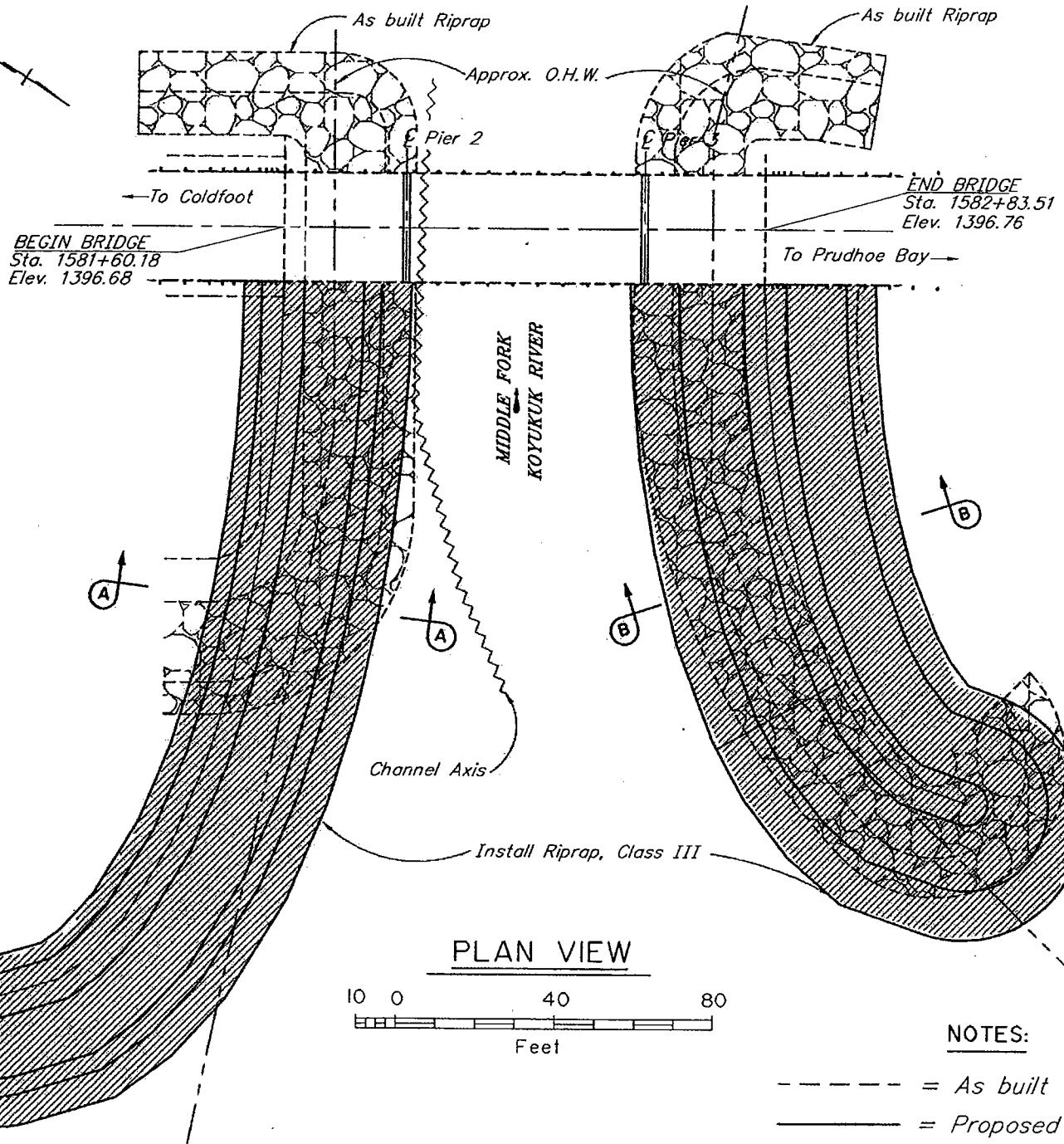
LEGEND

- [C] - Install New Expansion Joint Compression Seal
- [D] - Remove Debris
- [PW] - Pressure Wash All Superstructure Steel and Bearings
- [S] - Install New Deck Joint Sealant

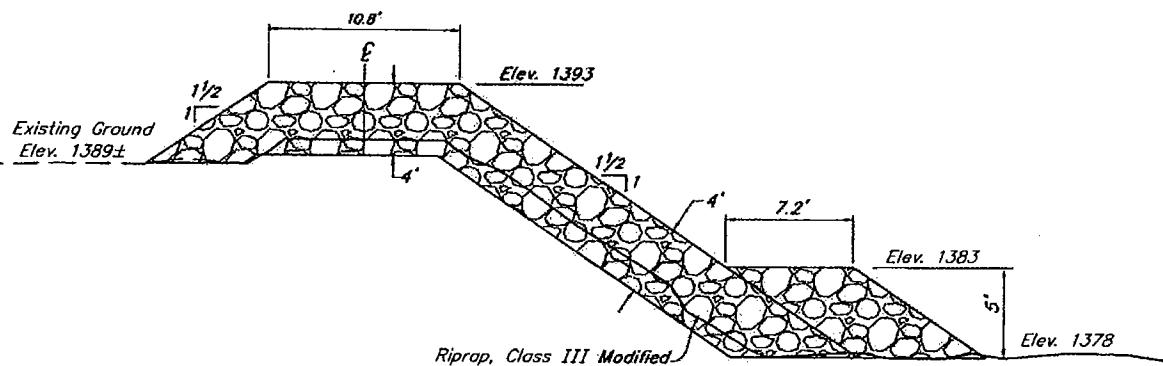
NOTES:

----- = As built
_____ = Proposed

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MILEPOST 175-209	
IM-DP-065-4(8)/61214	
KOYUKUK RIVER 4 - BN1284 MP 204.5	
DATE: 1/13/06	Sheet 35 of 41

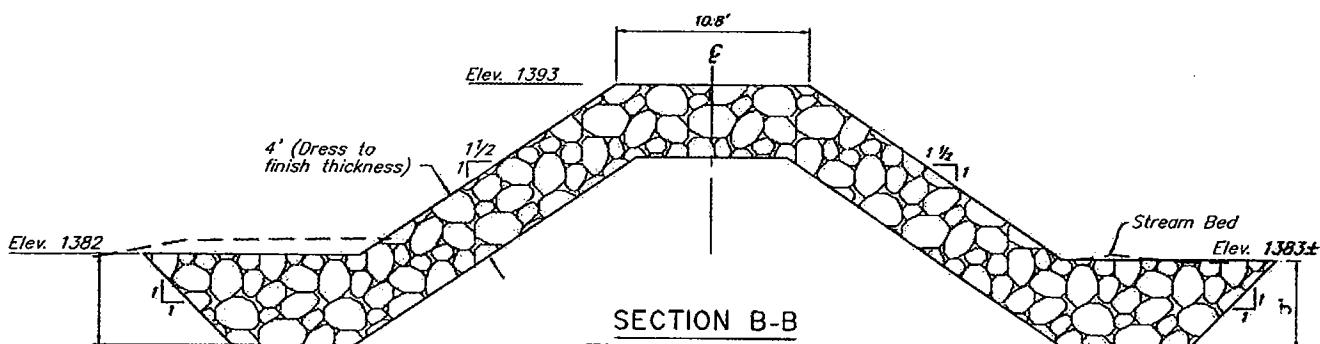


STATE OF ALASKA	
Department of Transportation and Public Facilities	
APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY	
MILEPOST 175-209	
IM-DP-065-4(8)/61214	
MIDDLE FORK	
KOYUKUK RIVER 4 - BN1284 MP 204.5	
DATE: 1/13/06	Sheet 36 of 41



SECTION A-A

12 0 5 10 15 20
In. Feet



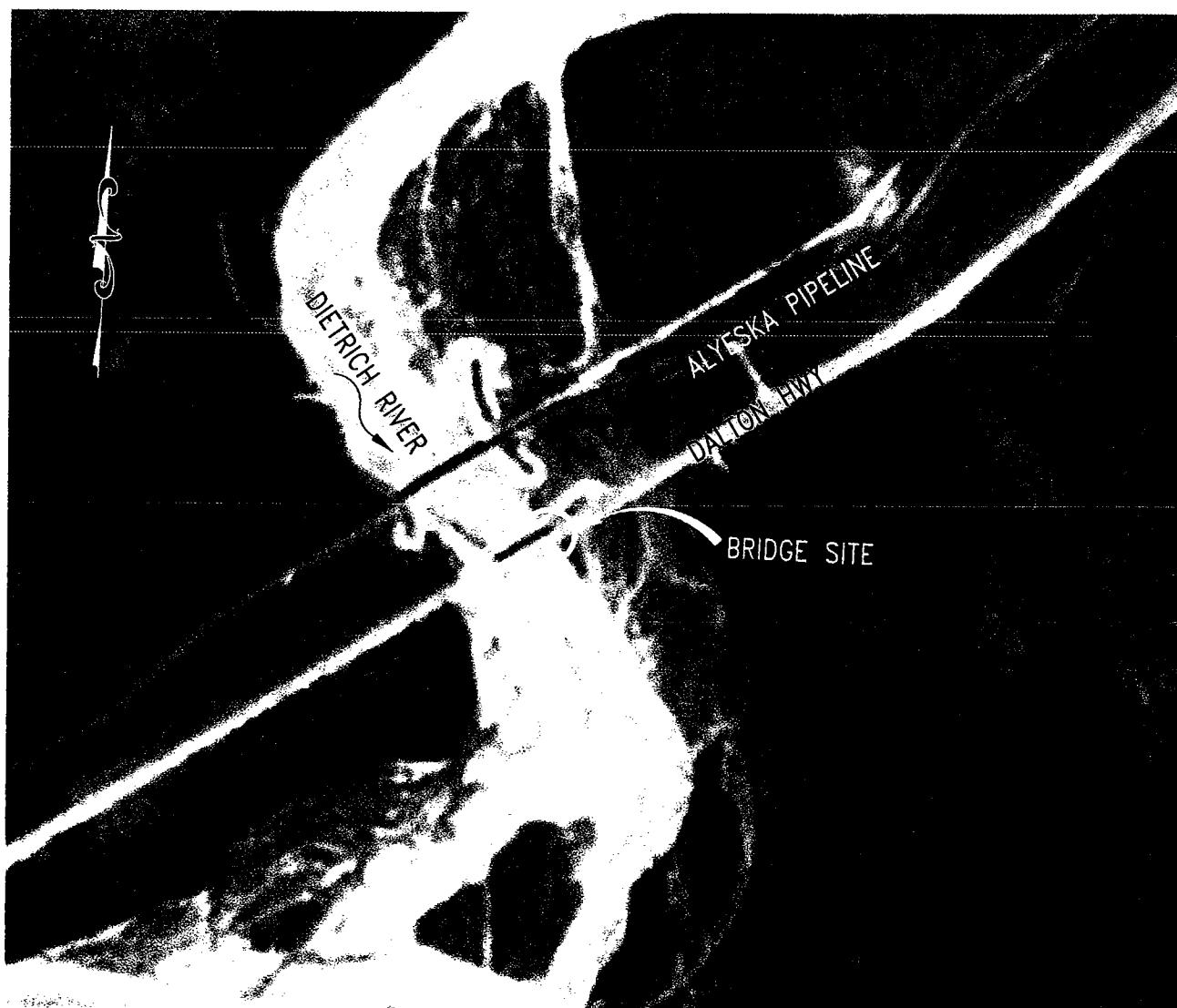
SECTION B-B

12 0 5 10 15 20
In. Feet

NOTES:

— — — — = As built
— — — — — = Proposed

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MILEPOST 175-209	
IM-DP-065-4(8)/61214	
KOYUKUK RIVER 4 - BN1284 MP 204.5	DATE: 1/13/06 Sheet 37 of 41



200 0 100 200 400
FEET

STATE OF ALASKA
Department of Transportation and Public Facilities

APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

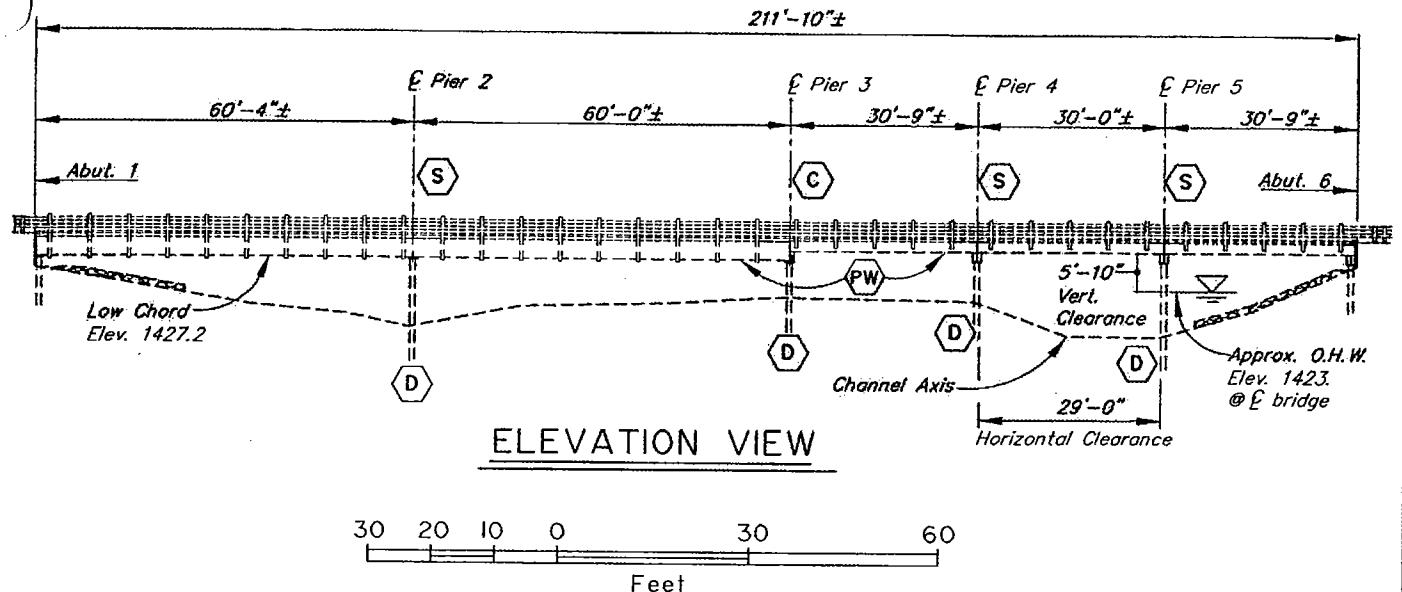
DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214

DIETRICH RIVER - BN 1337 MP 207

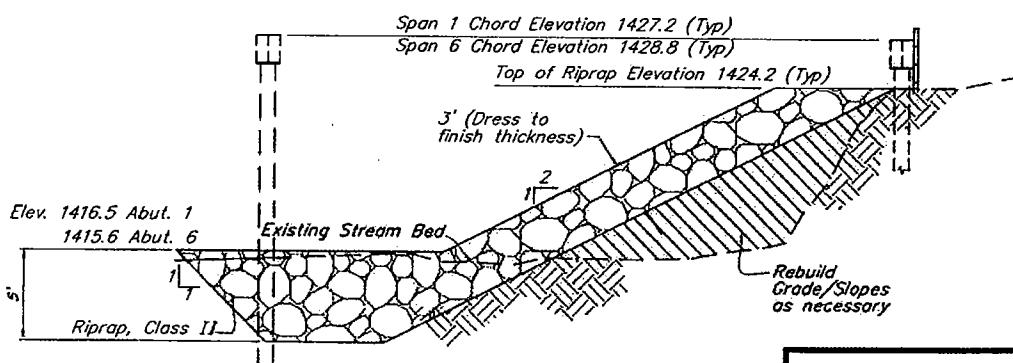
DATE: 01/25/06

SHEET 38 of 41



LEGEND

- [C] - Install New Expansion Joint Compression Seal
- [D] - Remove Debris
- [PW] - Pressure Wash All Superstructure Steel and Bearings
- [S] - Install New Deck Joint Sealant

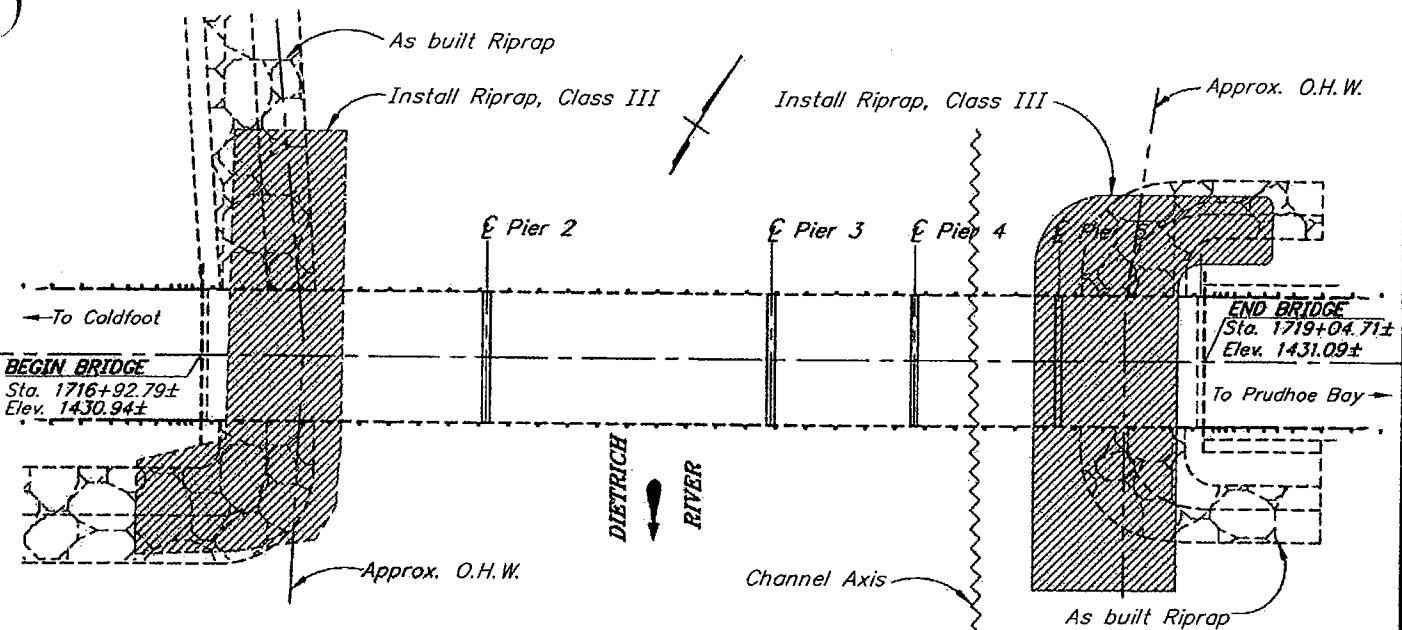


RIPRAP DETAIL

12 0 5 10 15 20

In. Feet

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MILEPOST 175-209	
IM-DP-065-4(8)/61214	
DIETRICH RIVER - BN1337 MP 207	
DATE: 1/13/06	Sheet 40 of 41



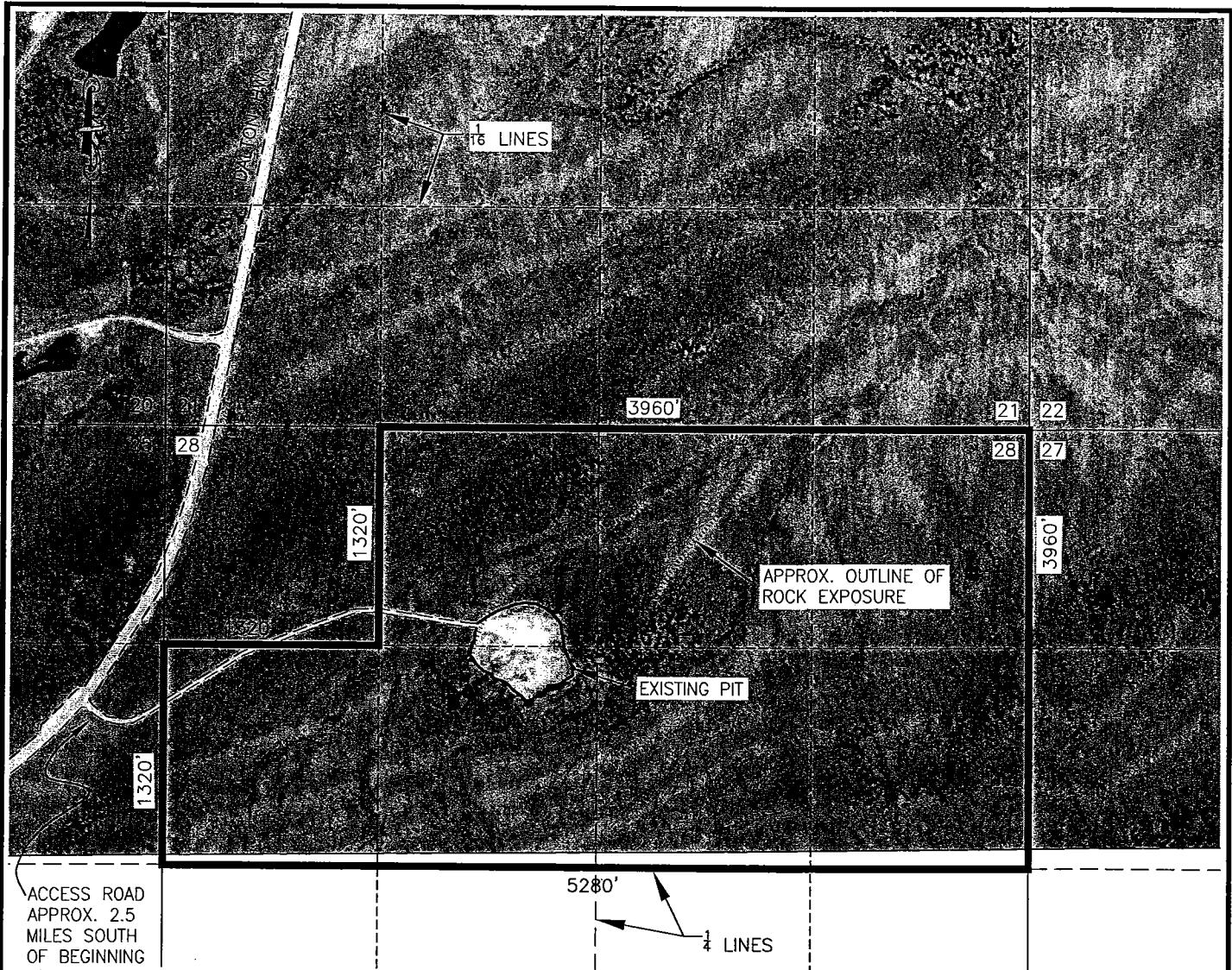
PLAN VIEW

10 0 40 80
Feet

NOTES:

----- = As built
_____ = Proposed

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MILEPOST 175-209	
IM-DP-065-4(8)/61214	
DIETRICH RIVER - BN1337 MP 207	
DATE: 1/13/06	Sheet 41 of 41



500 0 500 1000
FEET

M.S. 65-9-091-2
Coldfoot Quarry ~ M.P. 172.5

LANDOWNER: BLM

NE $\frac{1}{4}$, E $\frac{1}{2}$ NW $\frac{1}{4}$ & SW $\frac{1}{4}$ NW $\frac{1}{4}$ SECT. 28, T29N, R12W, FM
USGS QUAD MAP WISEMAN (A-1)

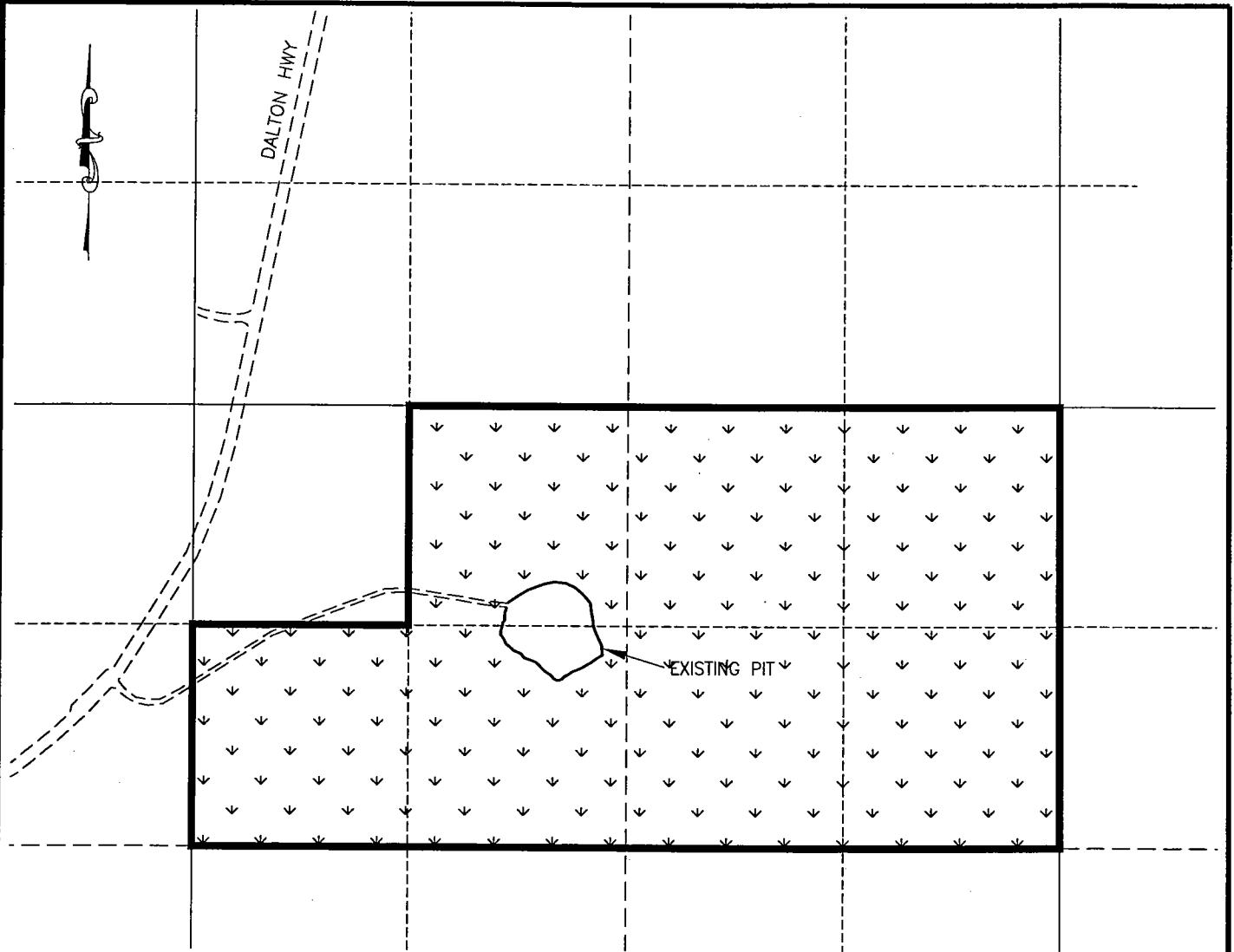
AERIAL PHOTO

DATED 2001

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
---	--

DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)	
M.S. 65-9-091-2 COLDFOOT QUARRY	
DATE: 09/22/06	FIGURE D-1



LEGEND

▼ WETLANDS/WATERS

FEET
500 0 500 1000

STATE OF ALASKA
Department of Transportation and Public Facilities
APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)

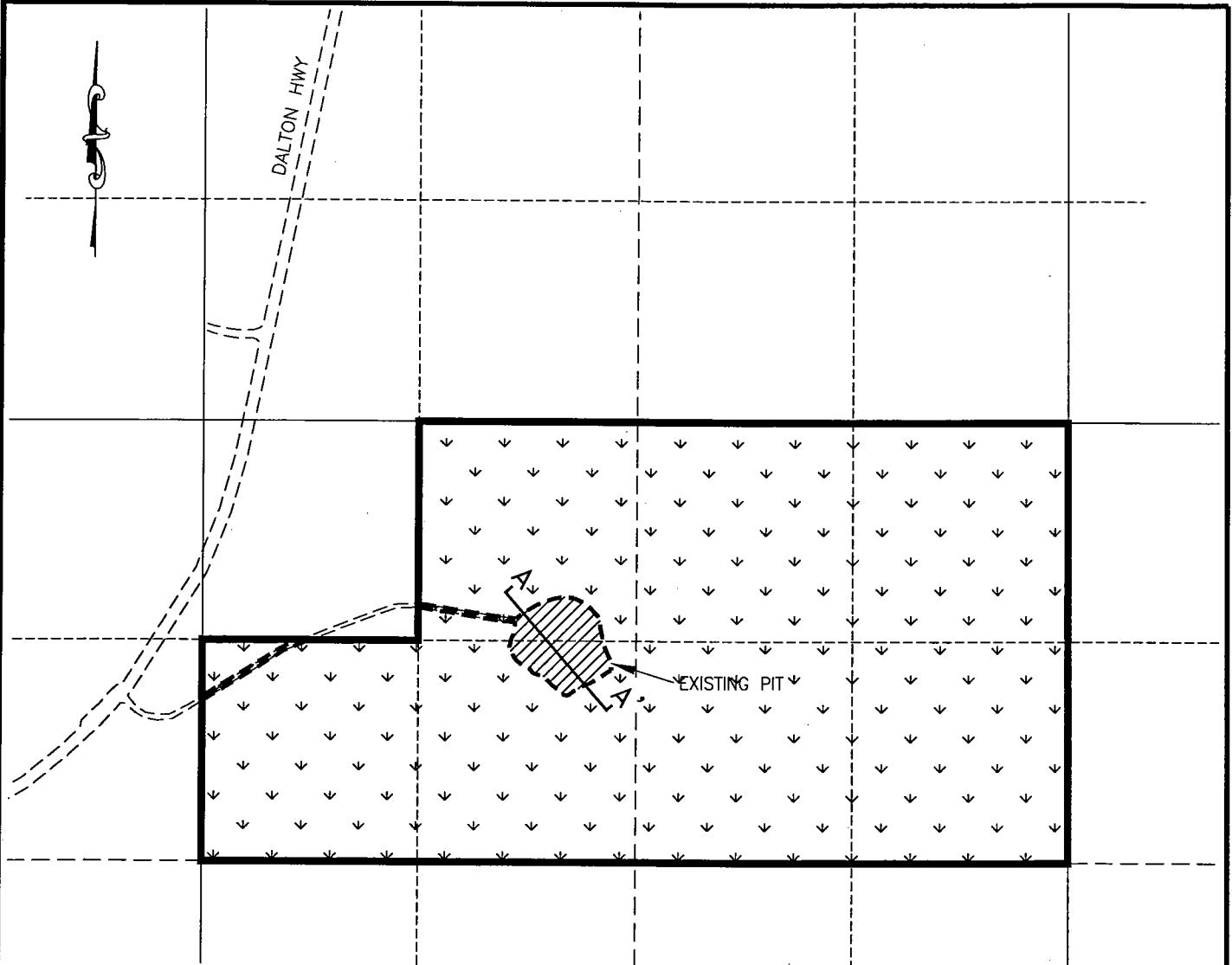
M.S. 65-9-091-2 COLDFOOT QUARRY

DATE: 09/22/06

FIGURE D-1-A

M.S. 65-9-091-2
Coldfoot Quarry

WETLANDS DELINEATION



LEGEND

- WETLANDS/WATERS
- PROJECT AREA
- PROJECT BOUNDARY

500 0 500 1000 FEET

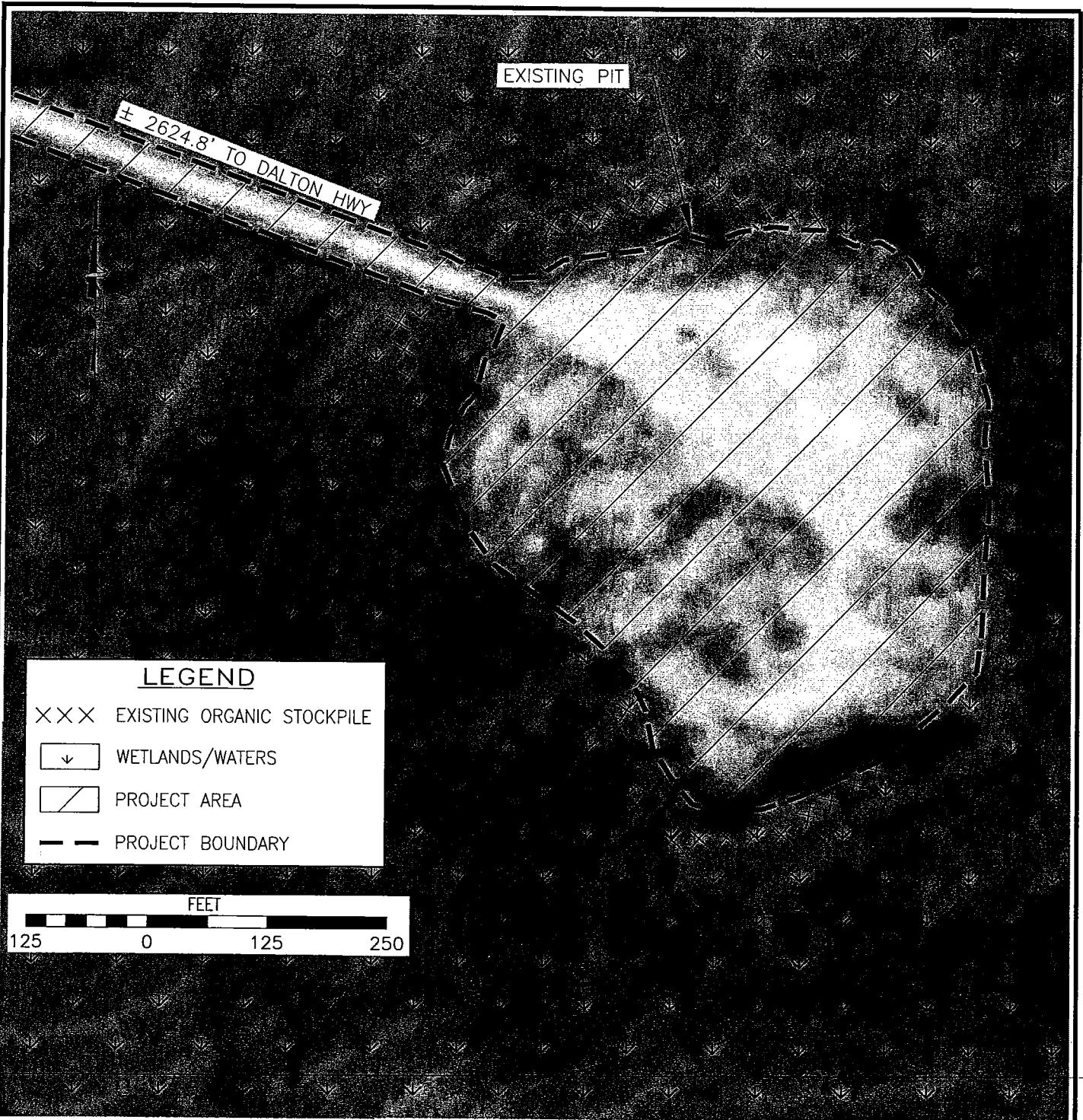
STATE OF ALASKA
Department of Transportation and Public Facilities
APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)	
M.S. 65-9-091-2 COLDFOOT QUARRY	
DATE: 09/22/06	FIGURE D-1-B

M.S. 65-9-091-2
Coldfoot Quarry

PROJECT IMPACTS

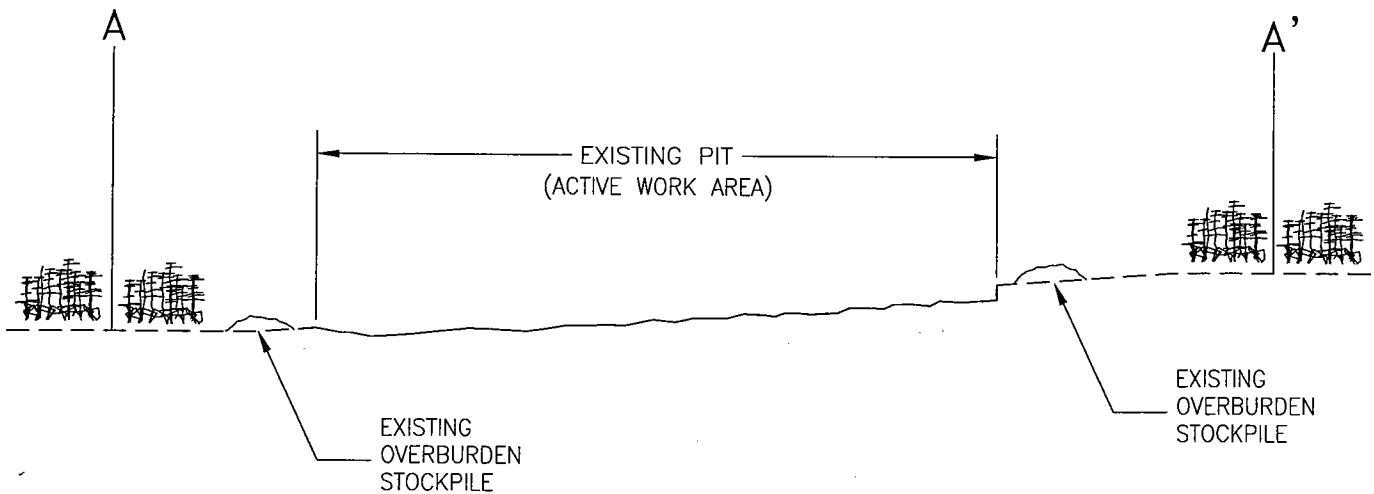


U:\H\W\61214.D175\env\COE_permit\REV.PT091-2-D-1-B1

M.S. 65-9-091-2
Coldfoot Quarry

**PROJECT IMPACTS
DETAIL**

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161)	
M.S. 65-9-091-2 COLDFOOT QUARRY	
DATE: 09/22/06	FIGURE D-1-B1



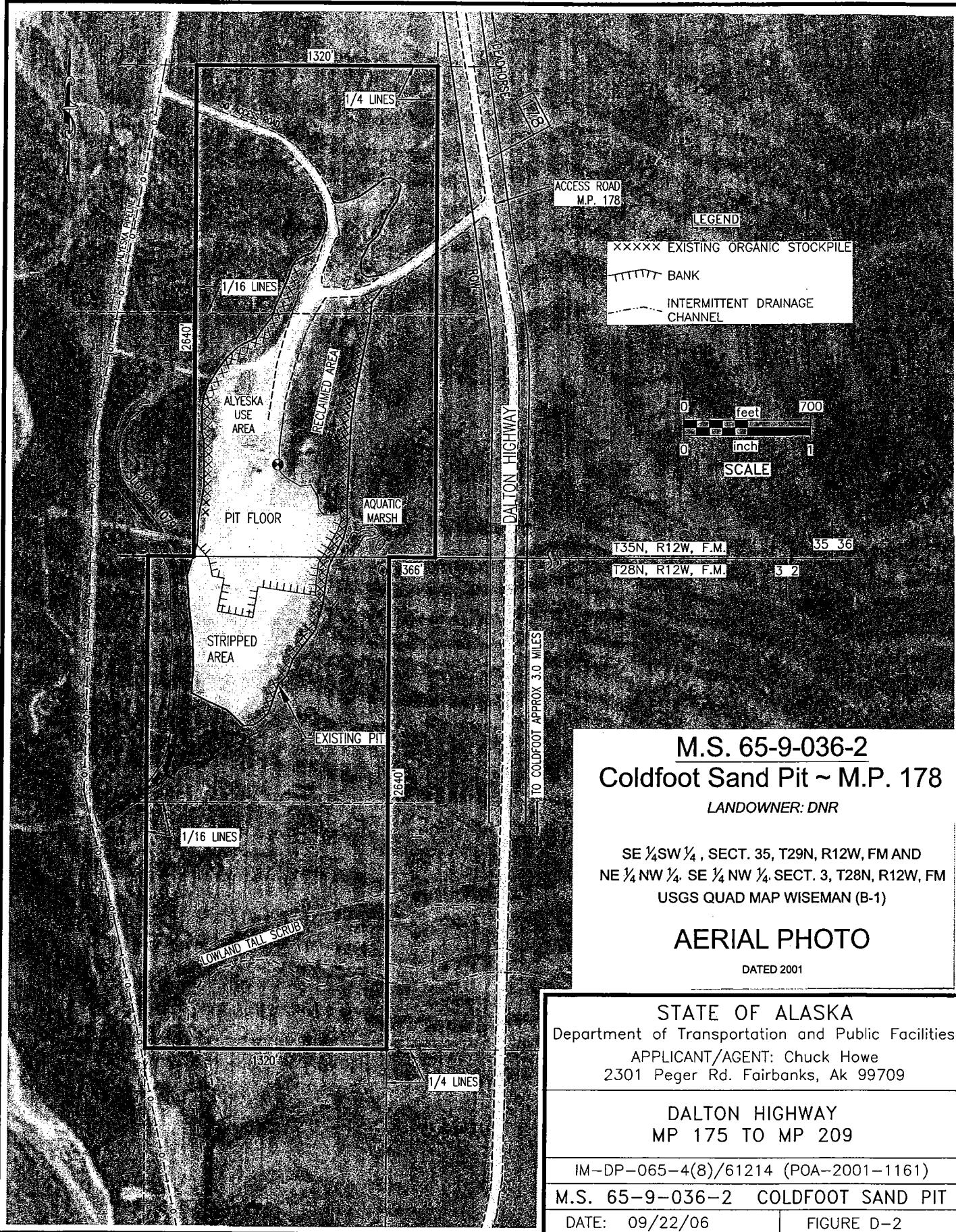
CONCEPTUAL CROSS SECTION A-A'

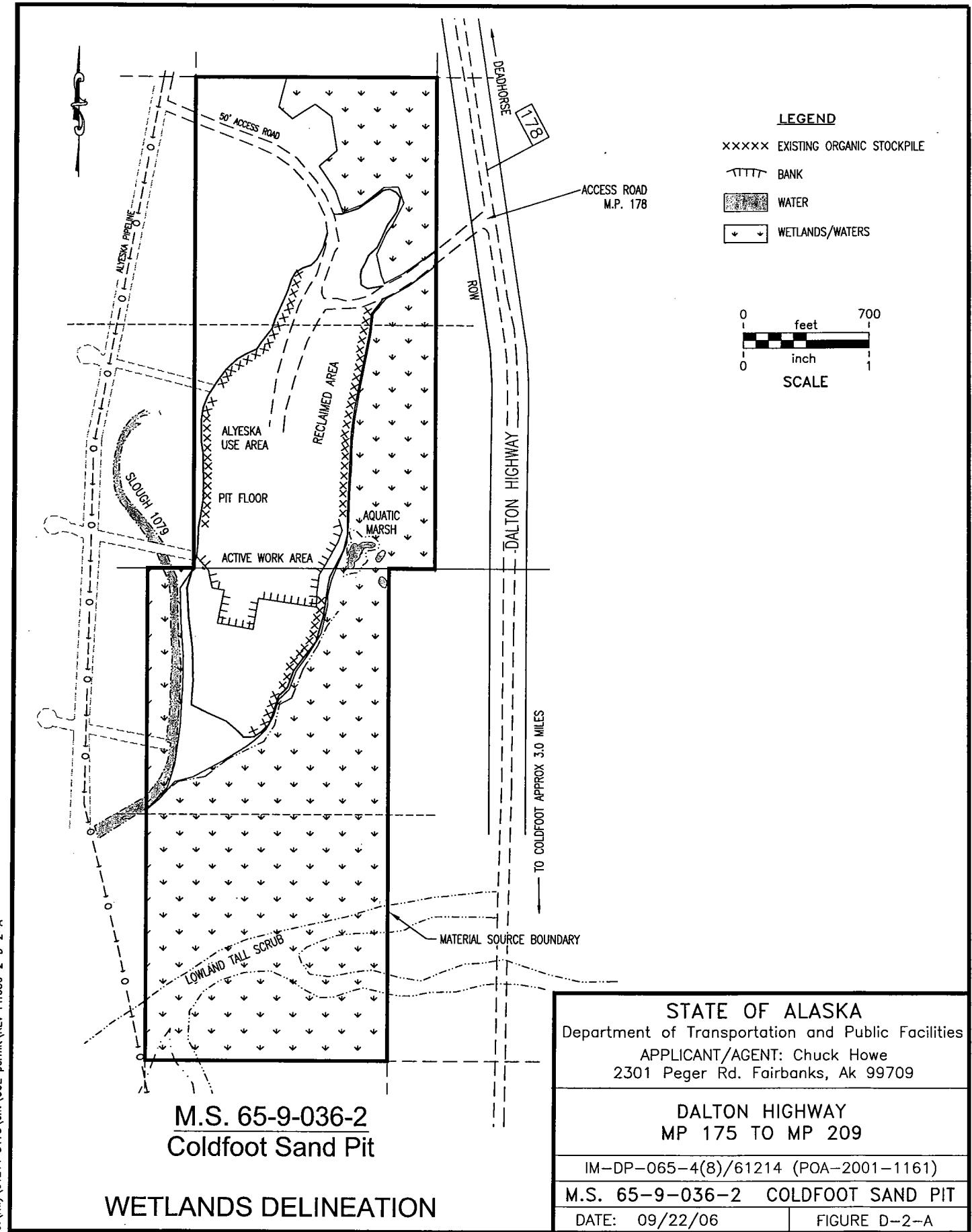
NO SCALE

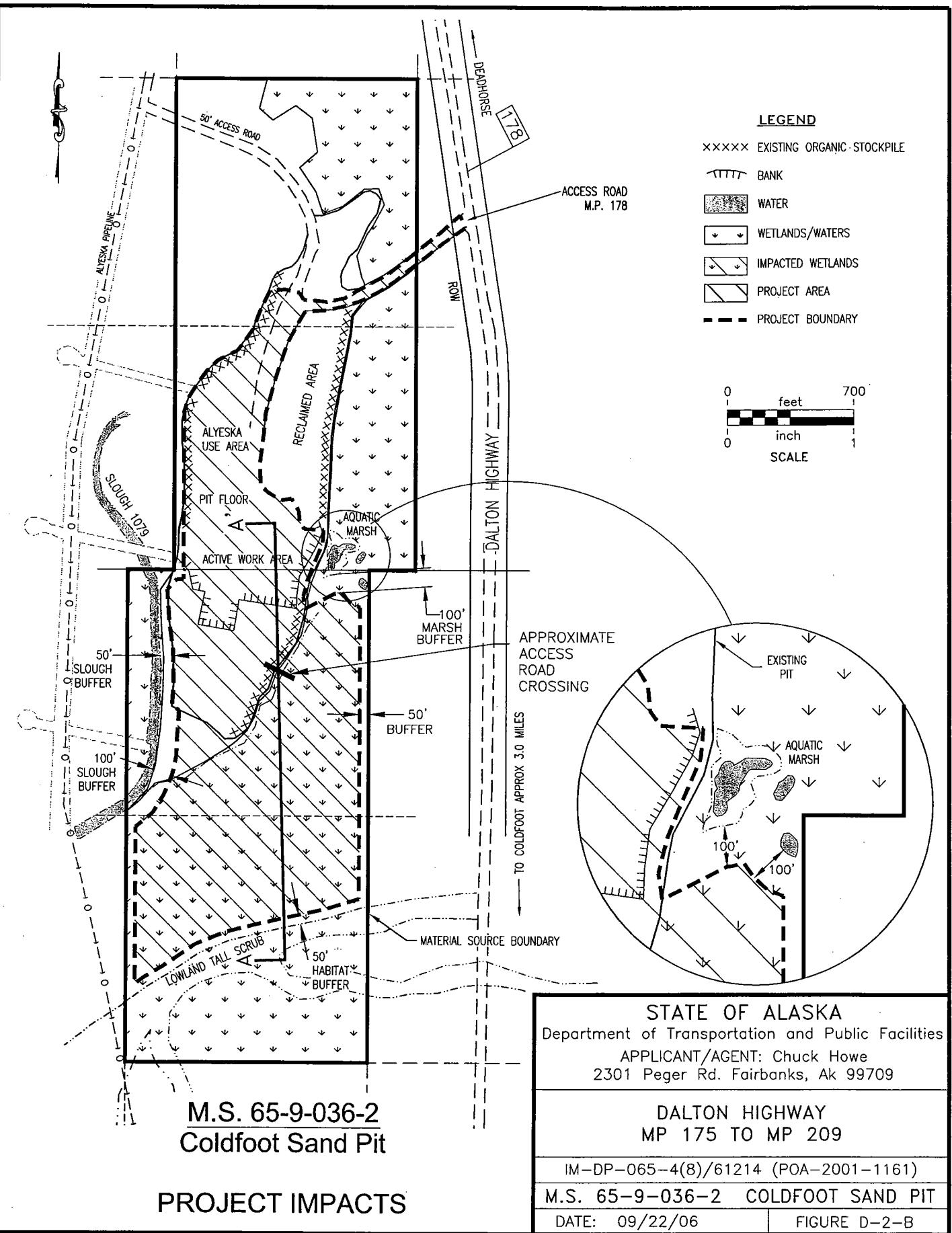
M.S. 65-9-091-2
Coldfoot Quarry

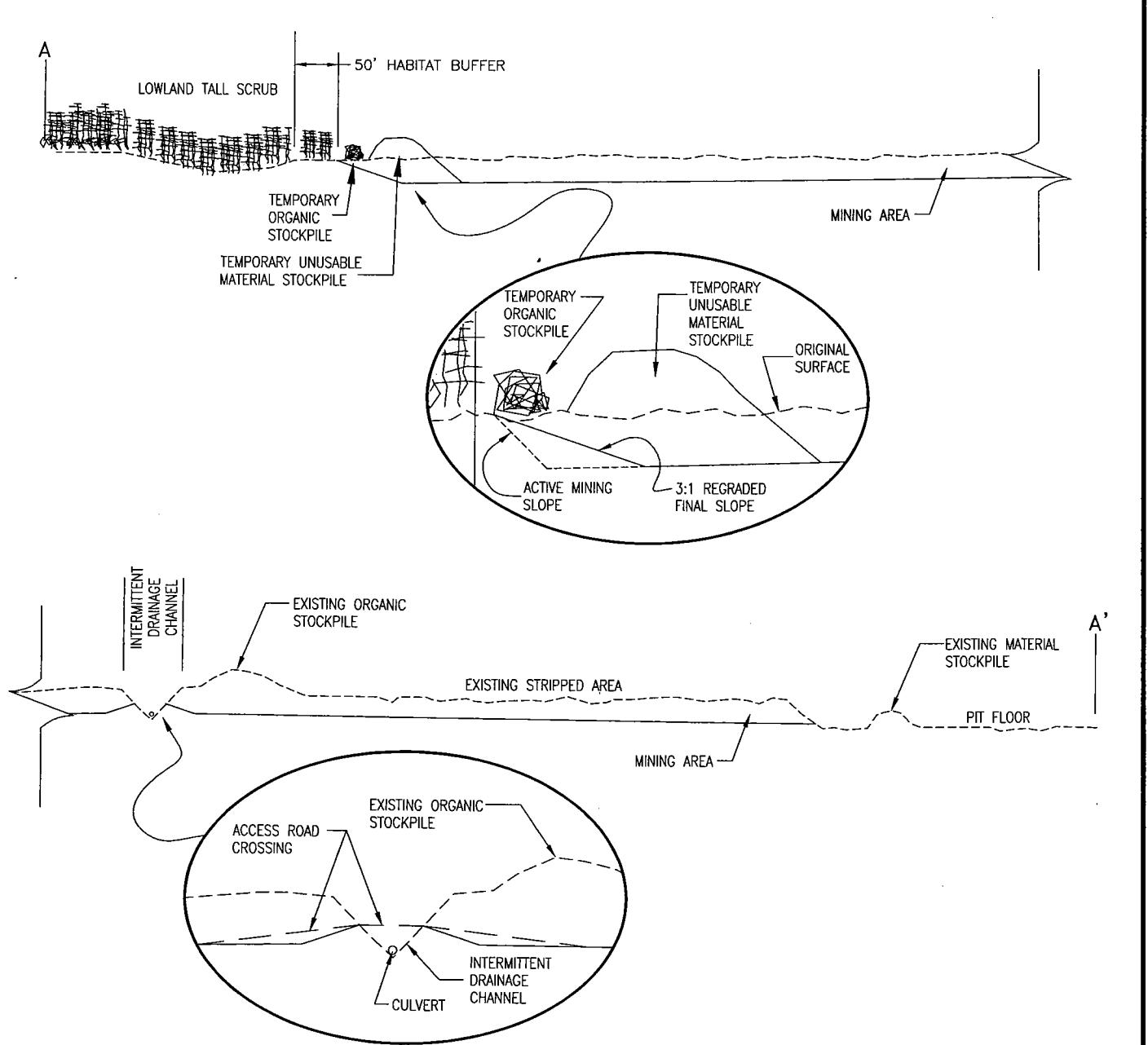
CROSS SECTION

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161)	
M.S. 65-9-091-2 COLDFOOT QUARRY	
DATE: 09/22/06	FIGURE D-1-C









CONCEPTUAL CROSS SECTION

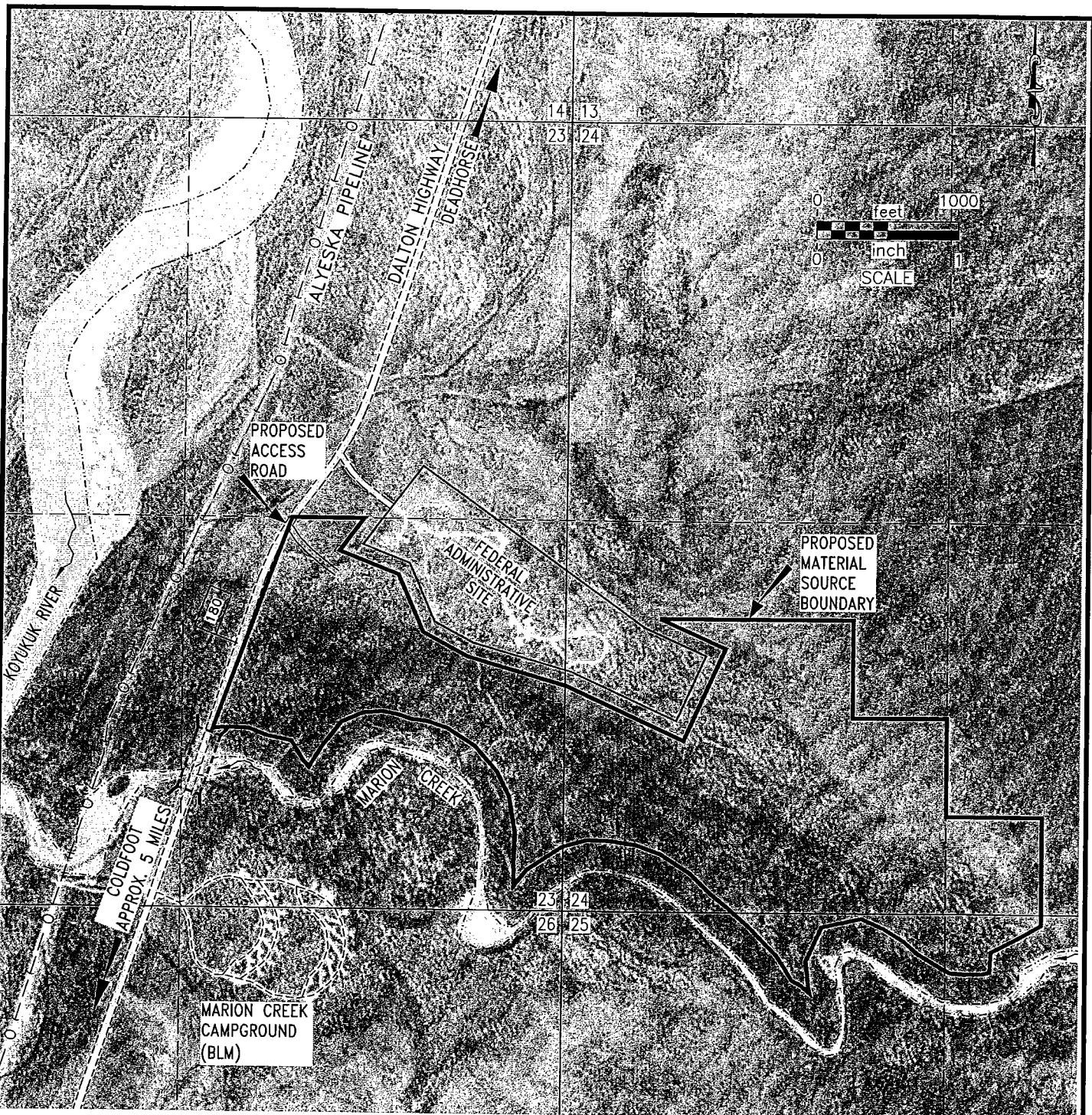
A-A'

NO SCALE

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161)	
M.S. 65-9-036-2 COLDFOOT SAND PIT	
DATE: 09/22/06	FIGURE D-2-C

M.S. 65-9-036-2
Coldfoot Sand Pit

CROSS SECTION



M.S. 65-9-098-2
Marion Creek ~ M.P. 180

LANDOWNER: DNR

PORTIONS OF SECT. 23, SECT. 24 AND SECT. 25 T29N, R12W, FM
USGS QUAD MAP WISEMAN (B-1)

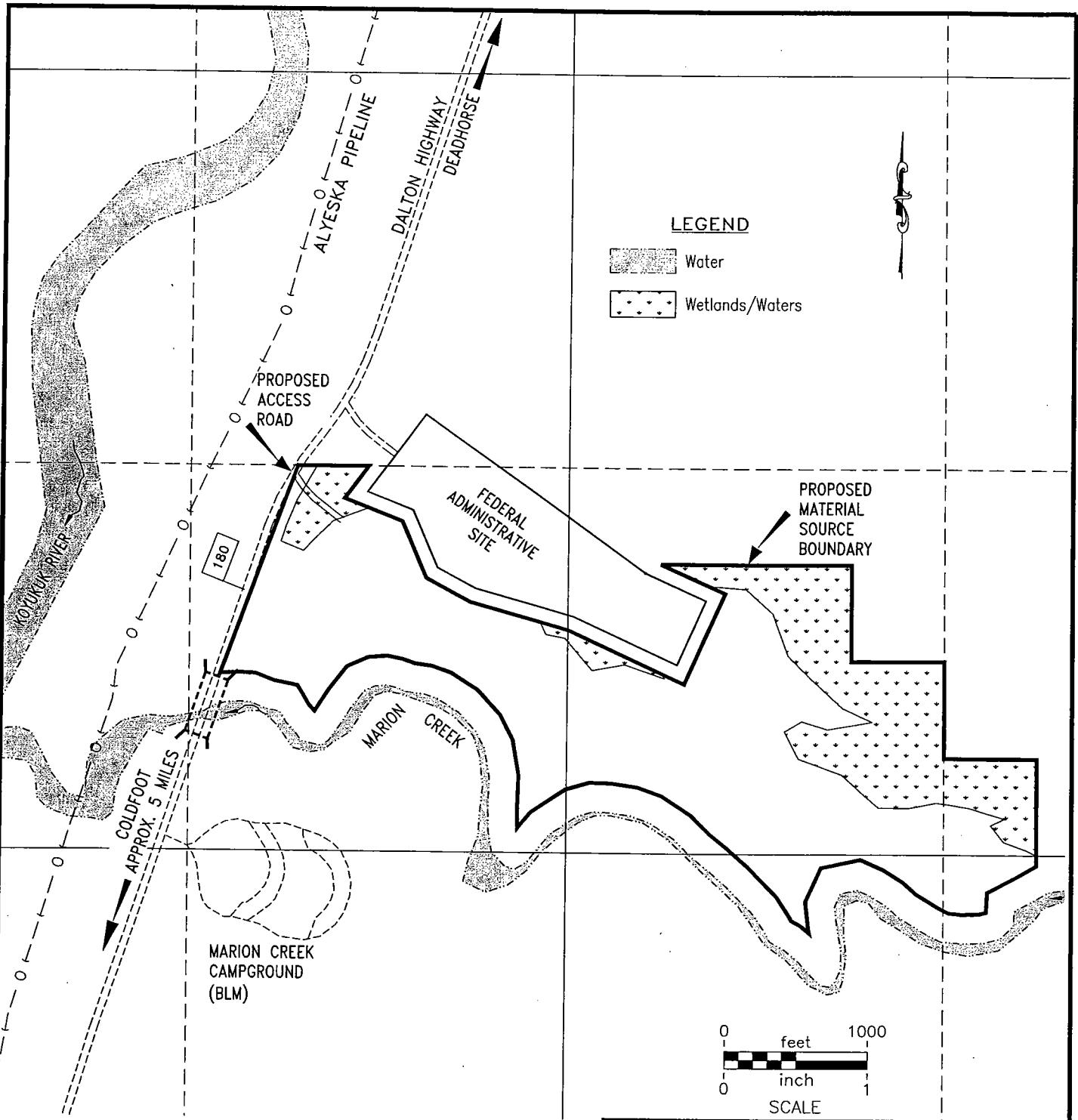
AERIAL PHOTO

DATED 2001

STATE OF ALASKA
Department of Transportation and Public Facilities
APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)
M.S. 65-9-098-2 MARION CREEK
DATE: 09/22/06
FIGURE D-3



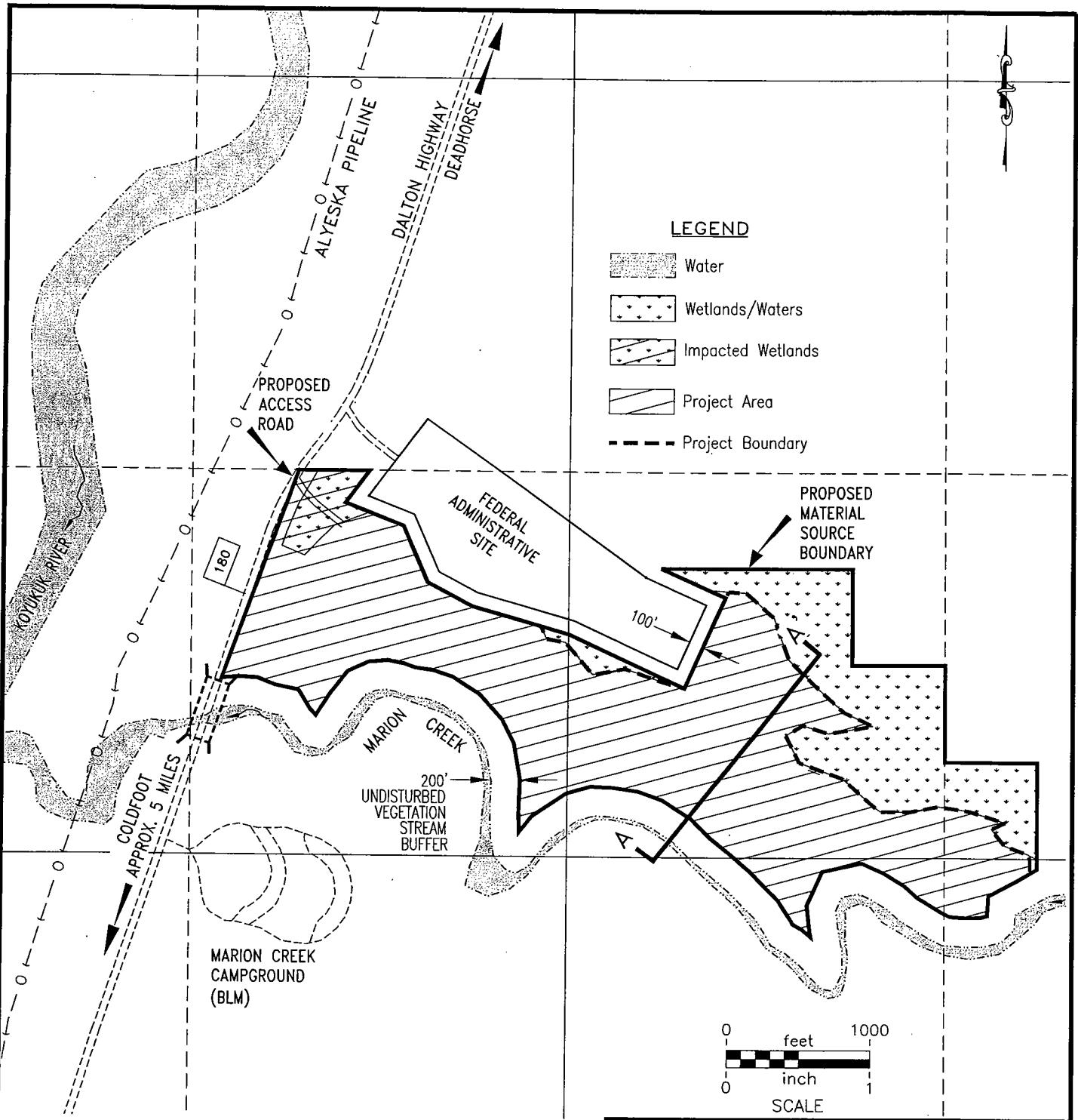
STATE OF ALASKA
 Department of Transportation and Public Facilities
 APPLICANT/AGENT: Chuck Howe
 2301 Peger Rd. Fairbanks, Ak 99709

DALTON HIGHWAY
 MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)
M.S. 65-9-098-2 MARION CREEK
DATE: 09/22/06
FIGURE D-3-A

M.S. 65-9-098-2
Marion Creek

WETLANDS DELINEATION



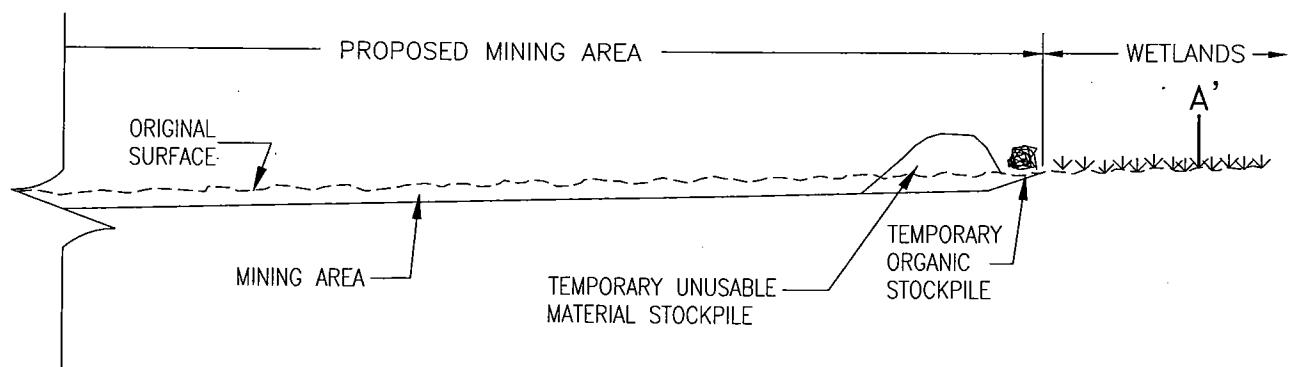
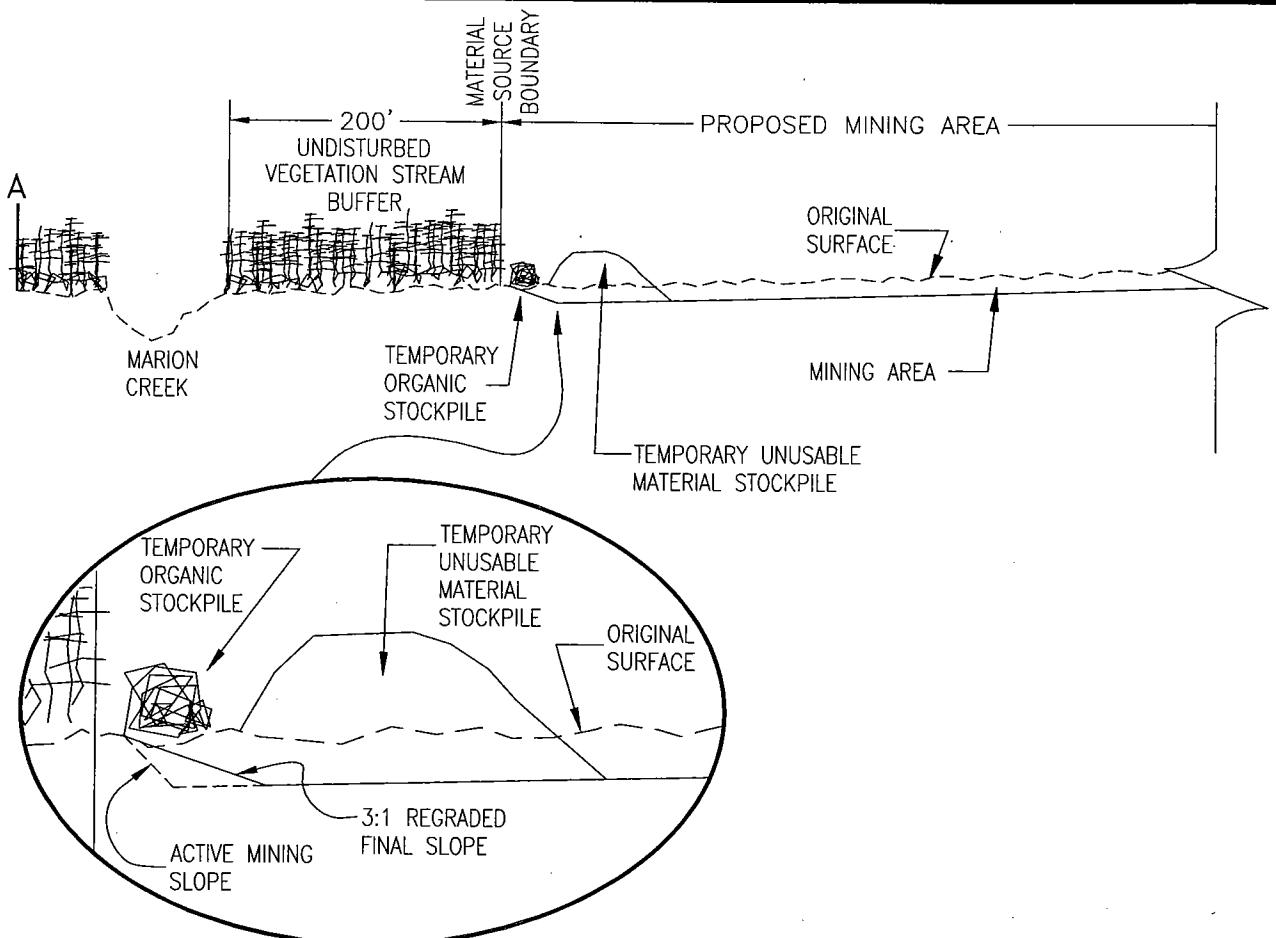
STATE OF ALASKA
 Department of Transportation and Public Facilities
 APPLICANT/AGENT: Chuck Howe
 2301 Peger Rd. Fairbanks, Ak 99709

DALTON HIGHWAY
 MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)
M.S. 65-9-098-2 MARION CREEK
DATE: 09/22/06
FIGURE D-3-B

M.S. 65-9-098-2
Marion Creek

PROJECT IMPACTS



CONCEPTUAL CROSS SECTION A-A'

NO SCALE

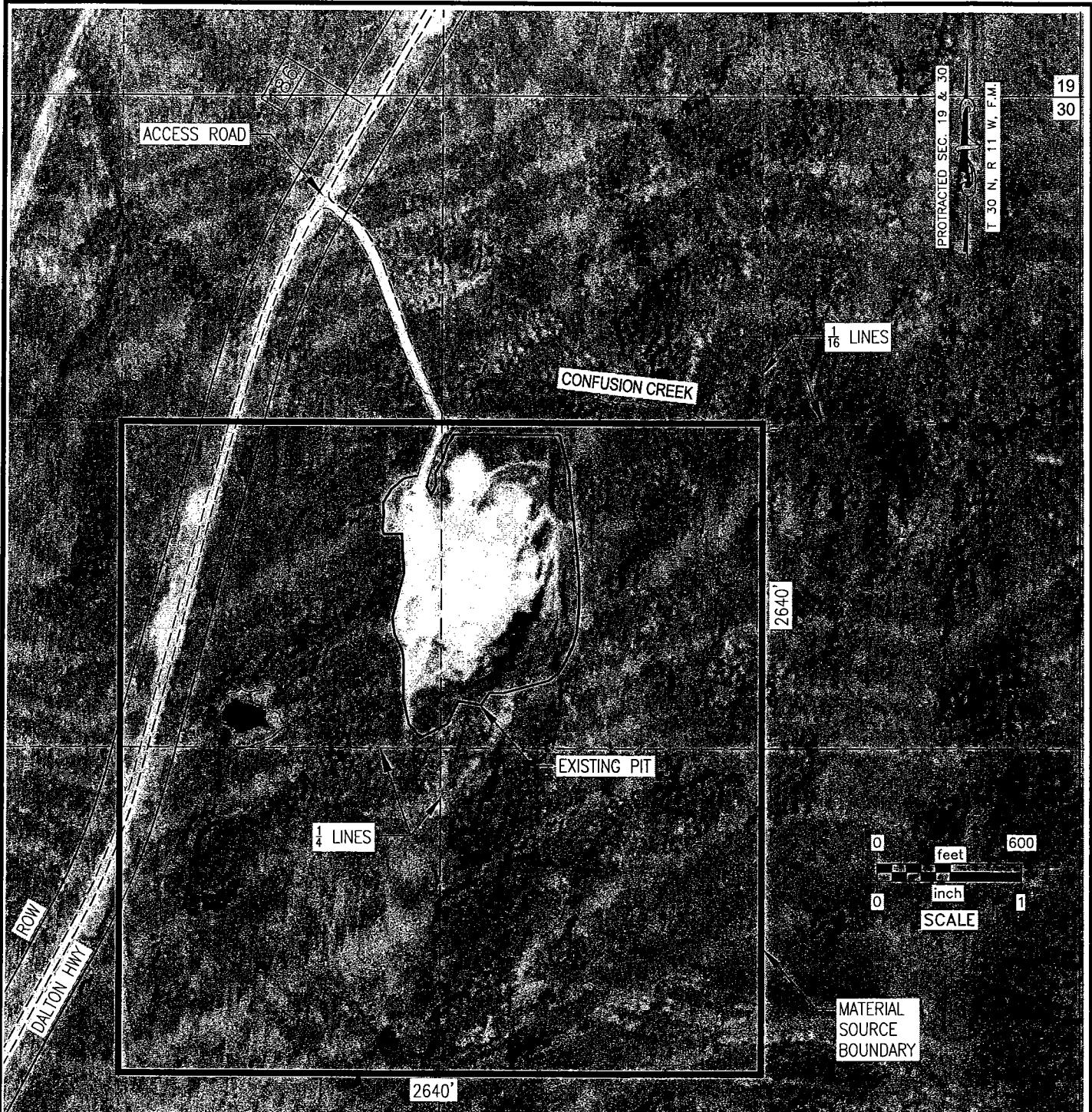
M.S. 65-9-098-2
Marion Creek

CROSS SECTION

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709

DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)
M.S. 65-9-098-2 MARION CREEK
DATE: 09/22/06
FIGURE D-3-C



M.S. 65-9-090-2
Wiseman Quarry ~ M.P. 186

LANDOWNER: BLM

SE $\frac{1}{4}$, NW $\frac{1}{4}$, NE $\frac{1}{4}$, SW $\frac{1}{4}$, NW $\frac{1}{4}$, SE $\frac{1}{4}$, SW $\frac{1}{4}$, NE $\frac{1}{4}$ OF SECT. 30
T30N, R11W, FM
USGS QUAD MAP WISEMAN (B-1)

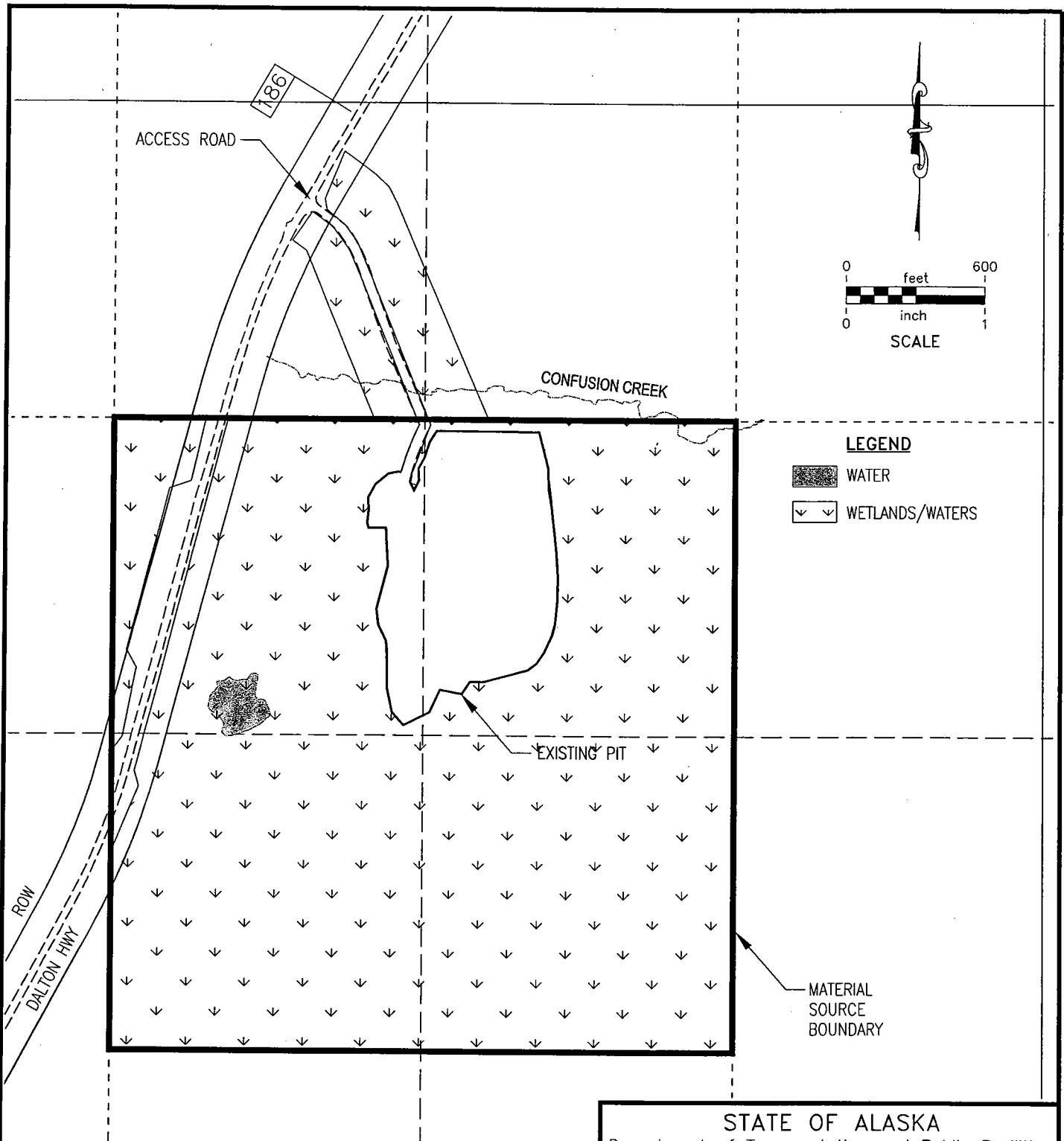
AERIAL PHOTO

DATED 2001

STATE OF ALASKA
Department of Transportation and Public Facilities
APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)	
M.S. 65-9-090-2	WISEMAN QUARRY
DATE: 09/22/06	FIGURE D-4

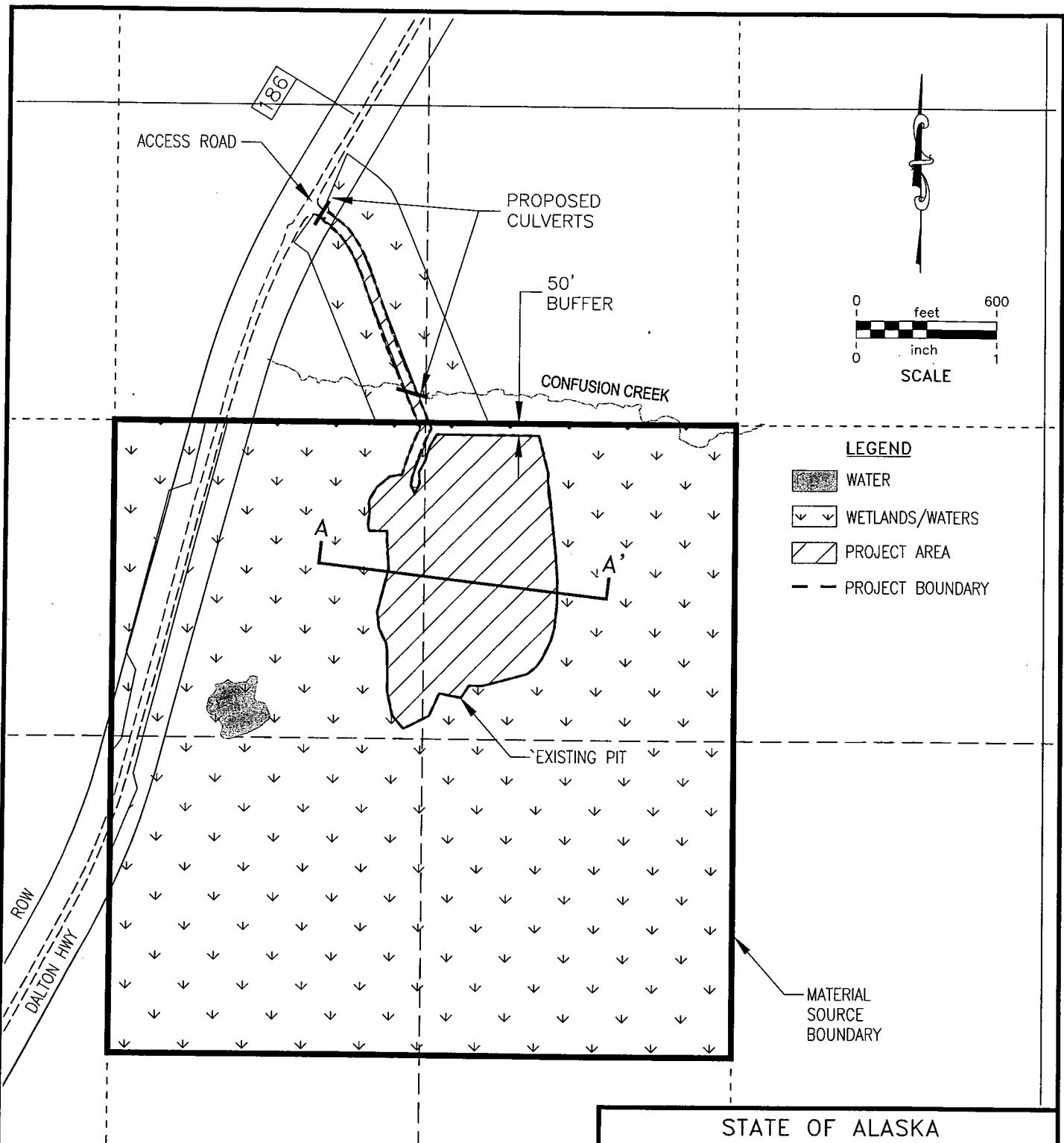


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**M.S. 65-9-090-2
Wiseman Quarry**

WETLANDS DELINEATION

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161)	
M.S. 65-9-090-2 WISEMAN QUARRY	
DATE: 09/22/06	FIGURE D-4-A

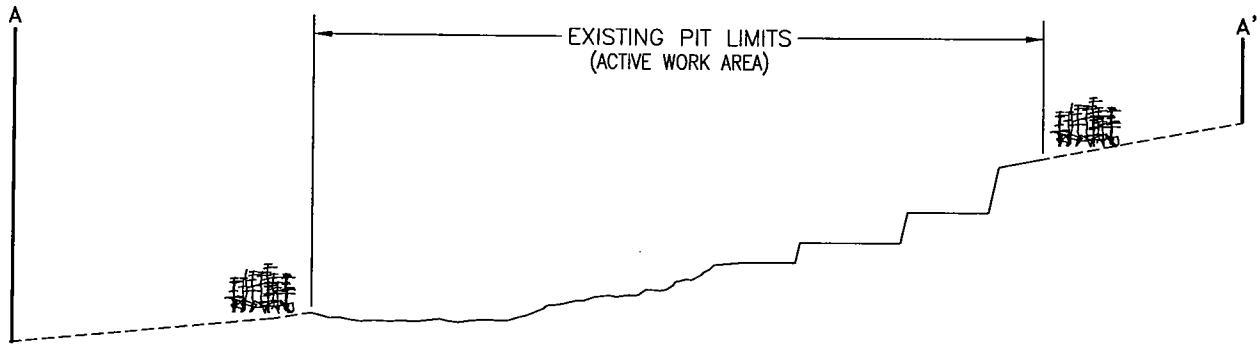


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**M.S. 65-9-090-2
Wiseman Quarry**

PROJECT IMPACTS

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161) M.S. 65-9-090-2 WISEMAN QUARRY DATE: 09/22/06 FIGURE D-4-B	



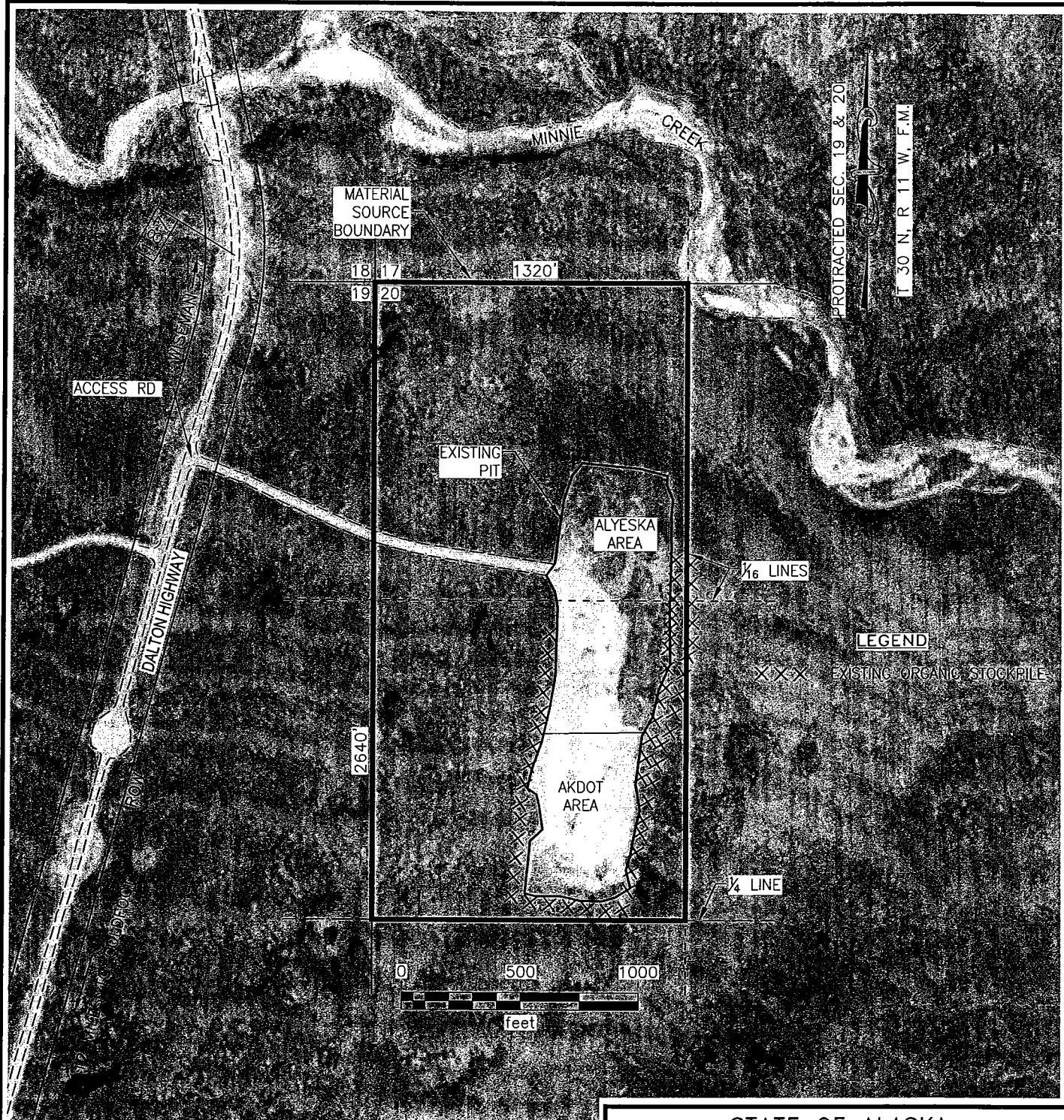
CONCEPTUAL CROSS SECTION A-A'

NO SCALE

M.S. 65-9-090-2
Wiseman Quarry

CROSS SECTION

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161)	
M.S. 65-9-090-2	WISEMAN QUARRY
DATE: 09/22/06	FIGURE D-4-C



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M.S. 65-9-051-2
Minnie Creek ~ M.P. 187
LANDOWNER: BLM

W $\frac{1}{2}$ OF NW $\frac{1}{4}$ OF SECT. 20, T30N, R11W, FM
 USGS QUAD MAP WISEMAN (B-1)

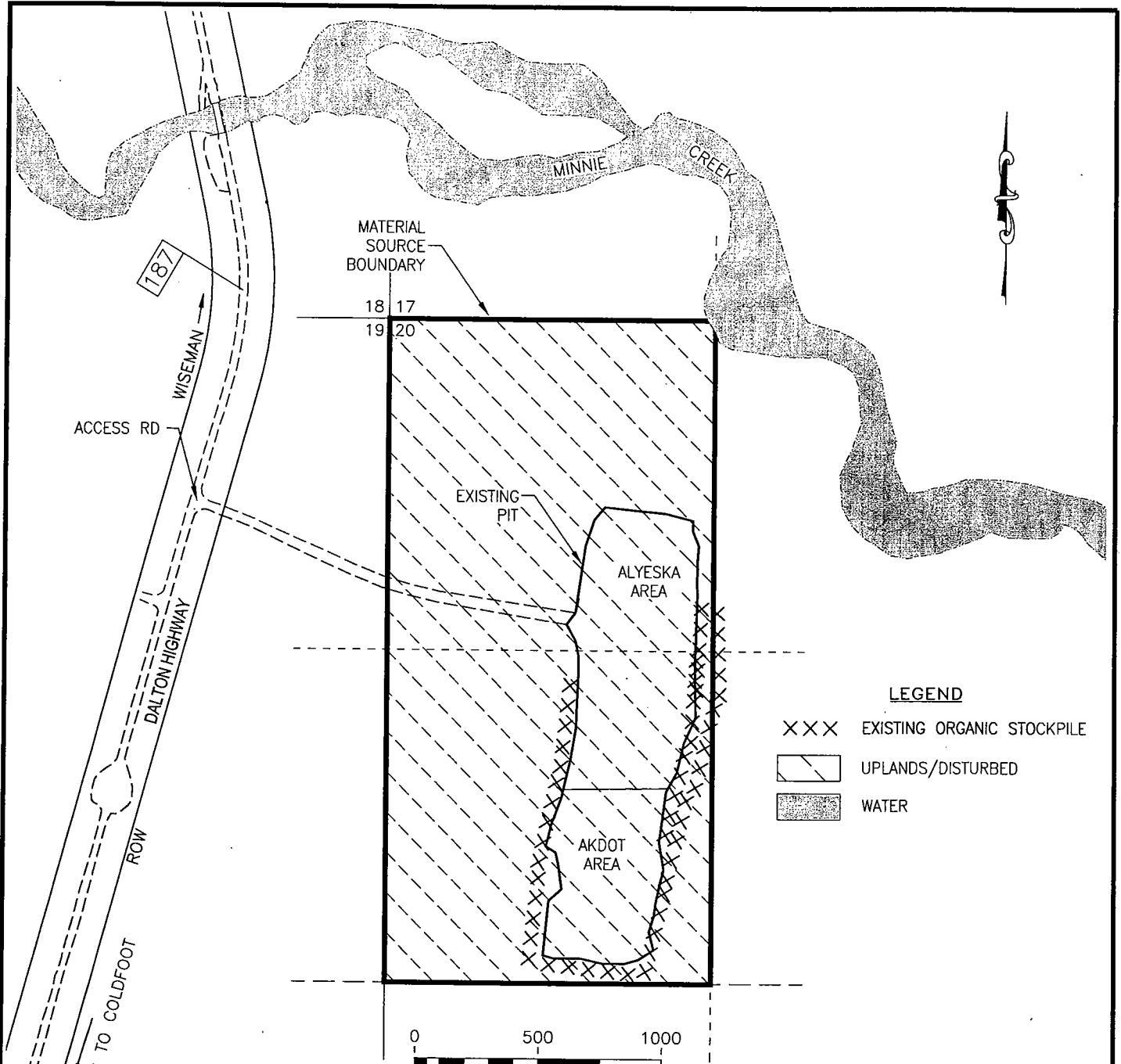
AERIAL PHOTO

DATED 2001

STATE OF ALASKA
 Department of Transportation and Public Facilities
 APPLICANT/AGENT: Chuck Howe
 2301 Peger Rd. Fairbanks, Ak 99709

DALTON HIGHWAY
 MP 175 TO MP 209

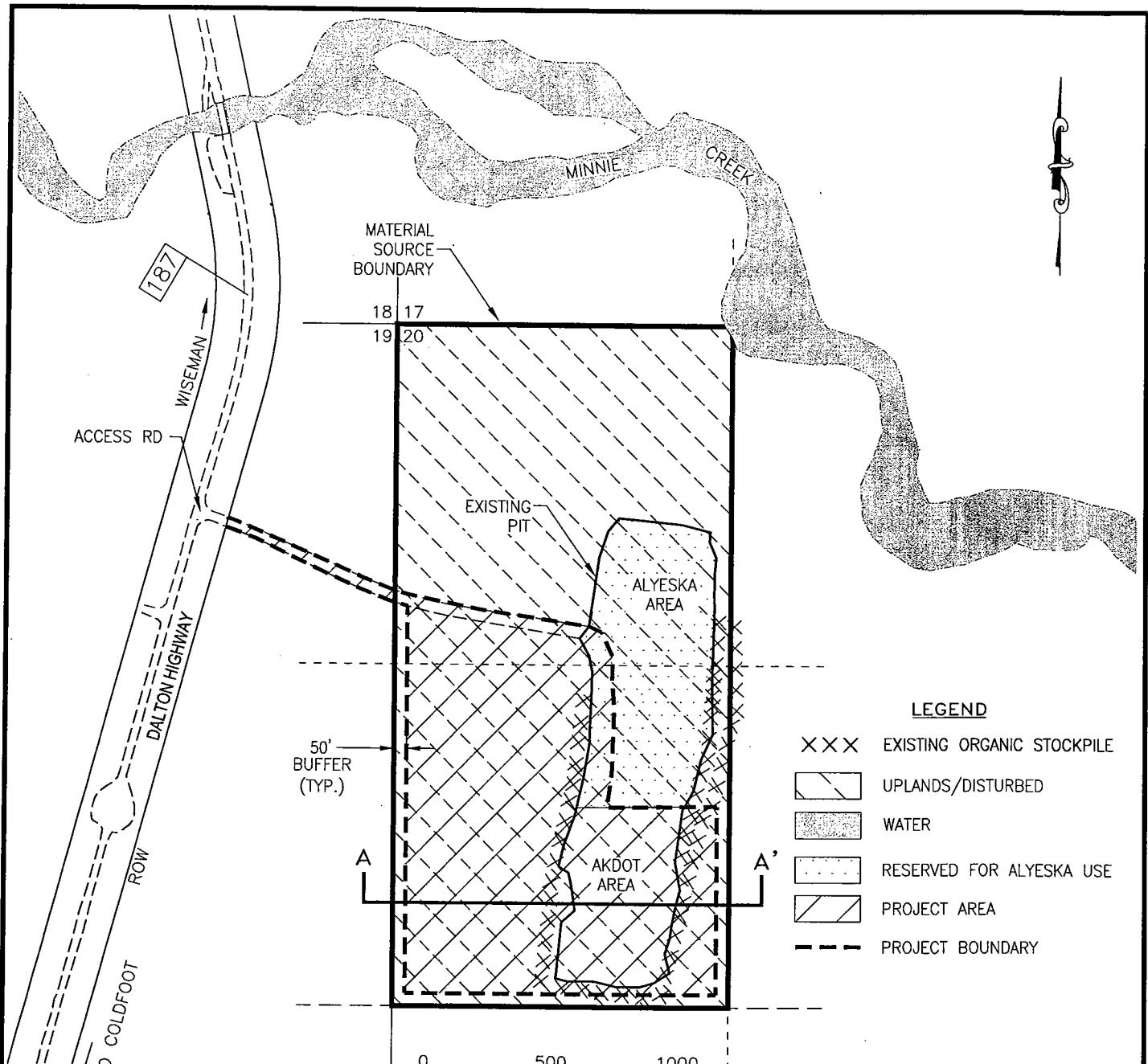
IM-DP-065-4(8)/61214 (POA-2001-1161)
M.S. 65-9-051-2 MINNIE CREEK
DATE: 09/22/06
FIGURE D-5



M.S. 65-9-051-2
Minnie Creek

WETLANDS DELINEATION

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161) M.S. 65-9-051-2 MINNIE CREEK DATE: 09/22/06 FIGURE D-5-A	

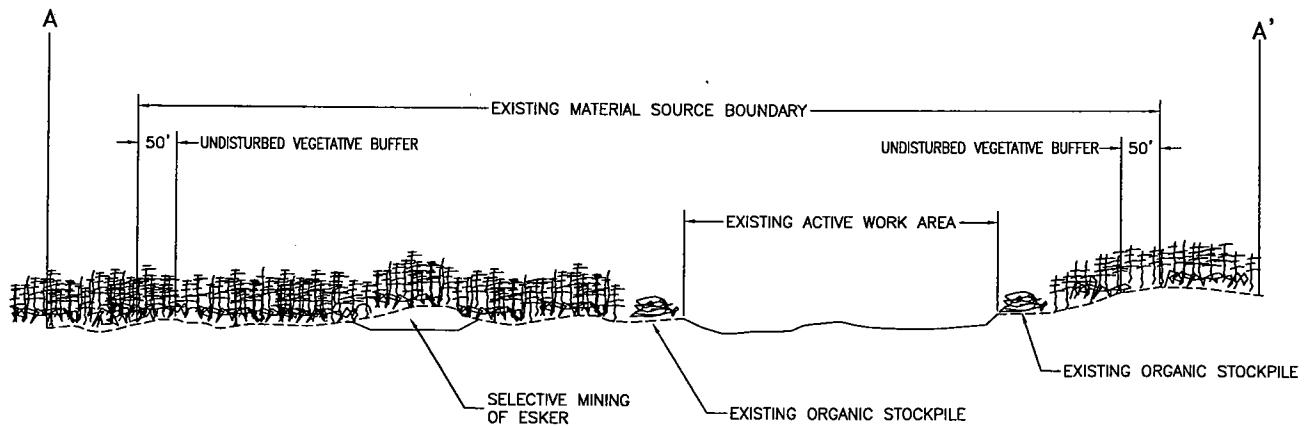


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M.S. 65-9-051-2 Minnie Creek

PROJECT IMPACTS

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161)	
M.S. 65-9-051-2	MINNIE CREEK
DATE: 09/22/06	FIGURE D-5-B



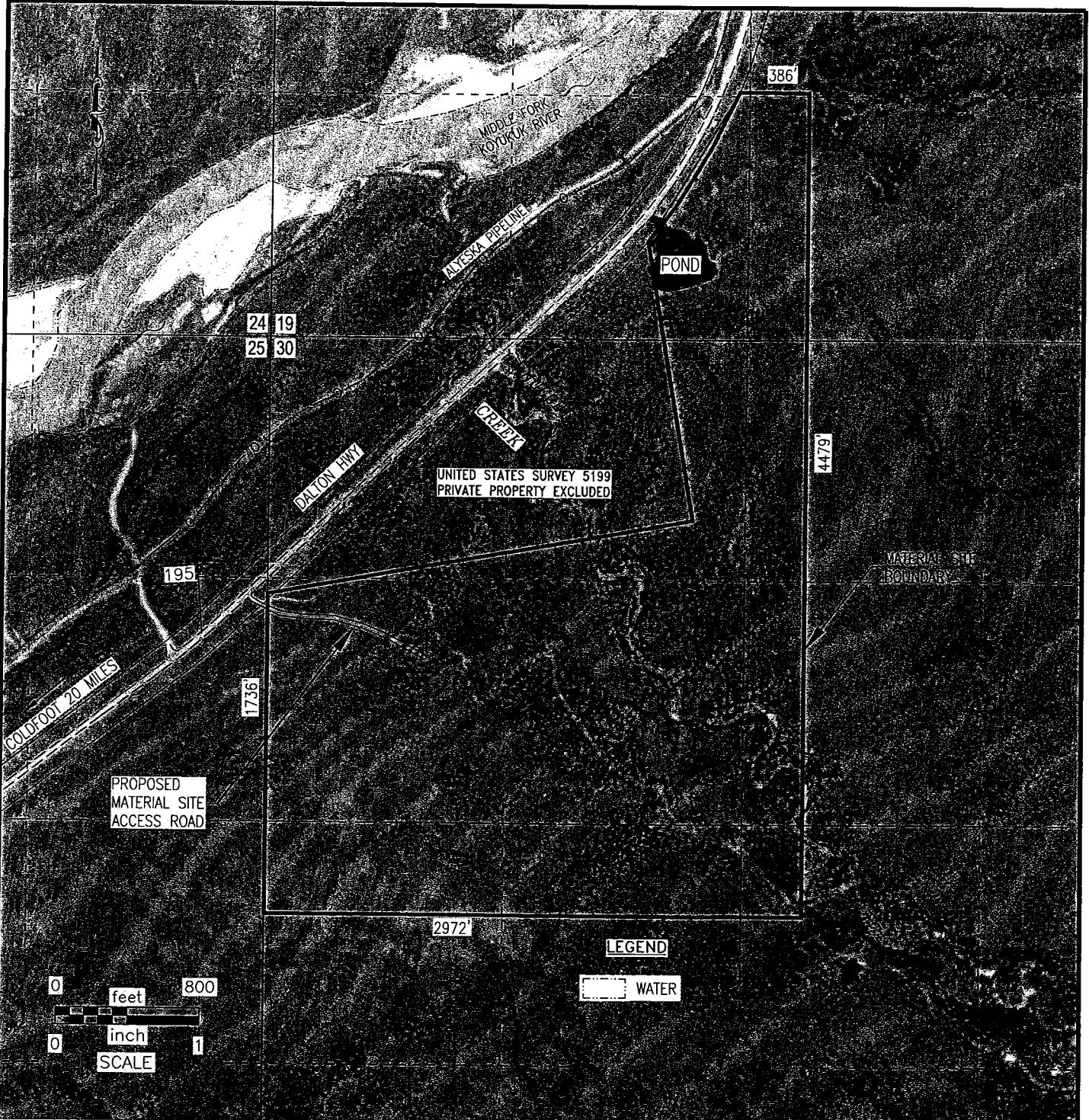
CONCEPTUAL CROSS SECTION A-A'

NO SCALE

M.S. 65-9-051-2
Minnie Creek

CROSS SECTION

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161)	
M.S. 65-9-051-2 MINNIE CREEK	
DATE: 09/22/06	FIGURE D-5-C



M.S. 65-9-097-2
Nugget Creek ~ M.P. 195

LANDOWNER: BLM

NW₄, N₂ N₂ SW₄, W₂ W₂ NE₄, NW₄ NW₄ SE₄ OF SECT. 30, E₂
SE₄ SW₄, W₂ SW₄ SE₄ OF SECT. 19, T31N, R10W, FM
USGS QUAD MAP CHANDALAR (B-6)

AERIAL PHOTO

DATED 2001

STATE OF ALASKA
Department of Transportation and Public Facilities
APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

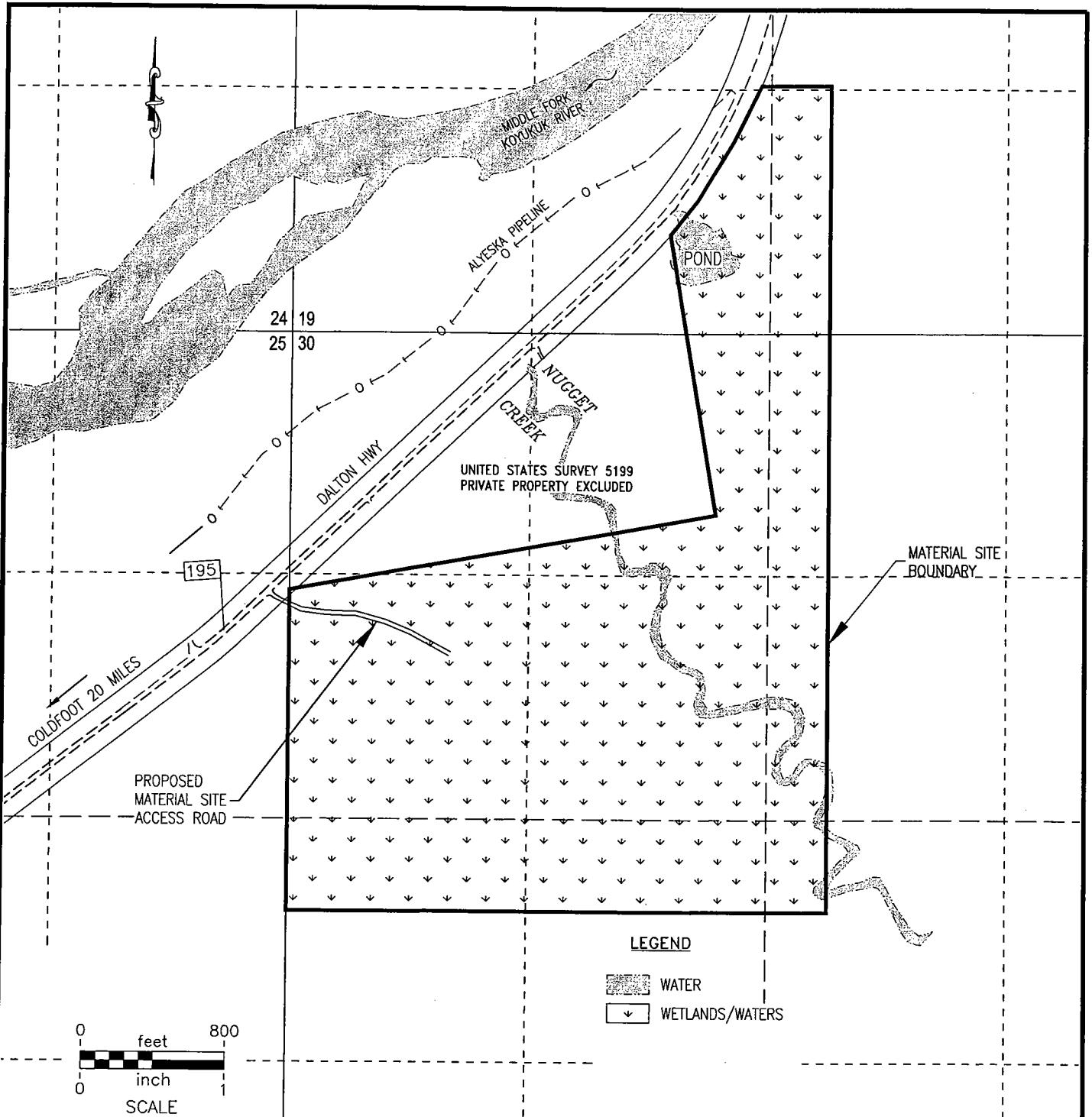
DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)

M.S. 65-097-2 NUGGET CREEK

DATE: 09/22/06

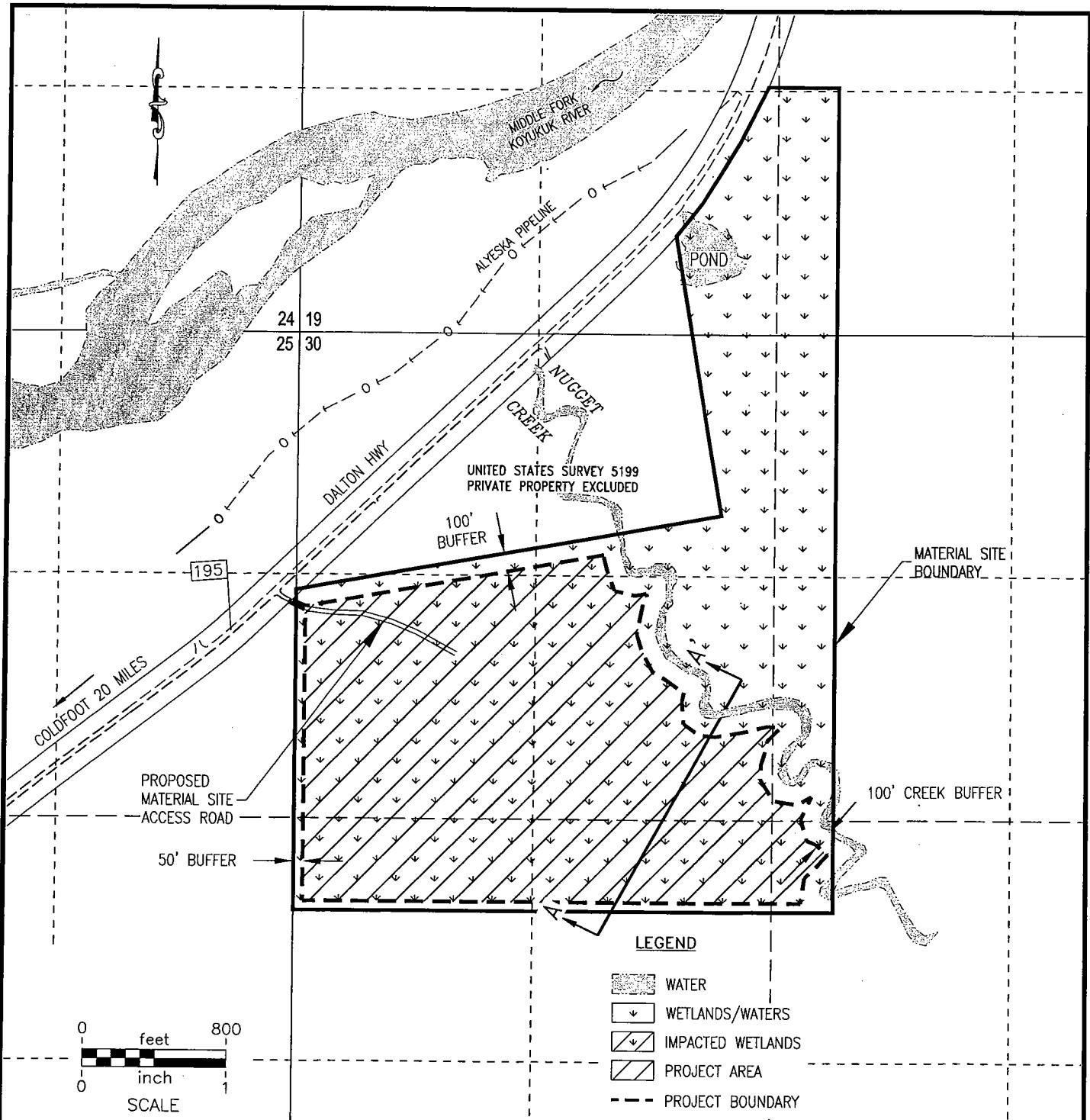
FIGURE D-6



M.S. 65-9-097-2
Nugget Creek

WETLANDS DELINEATION

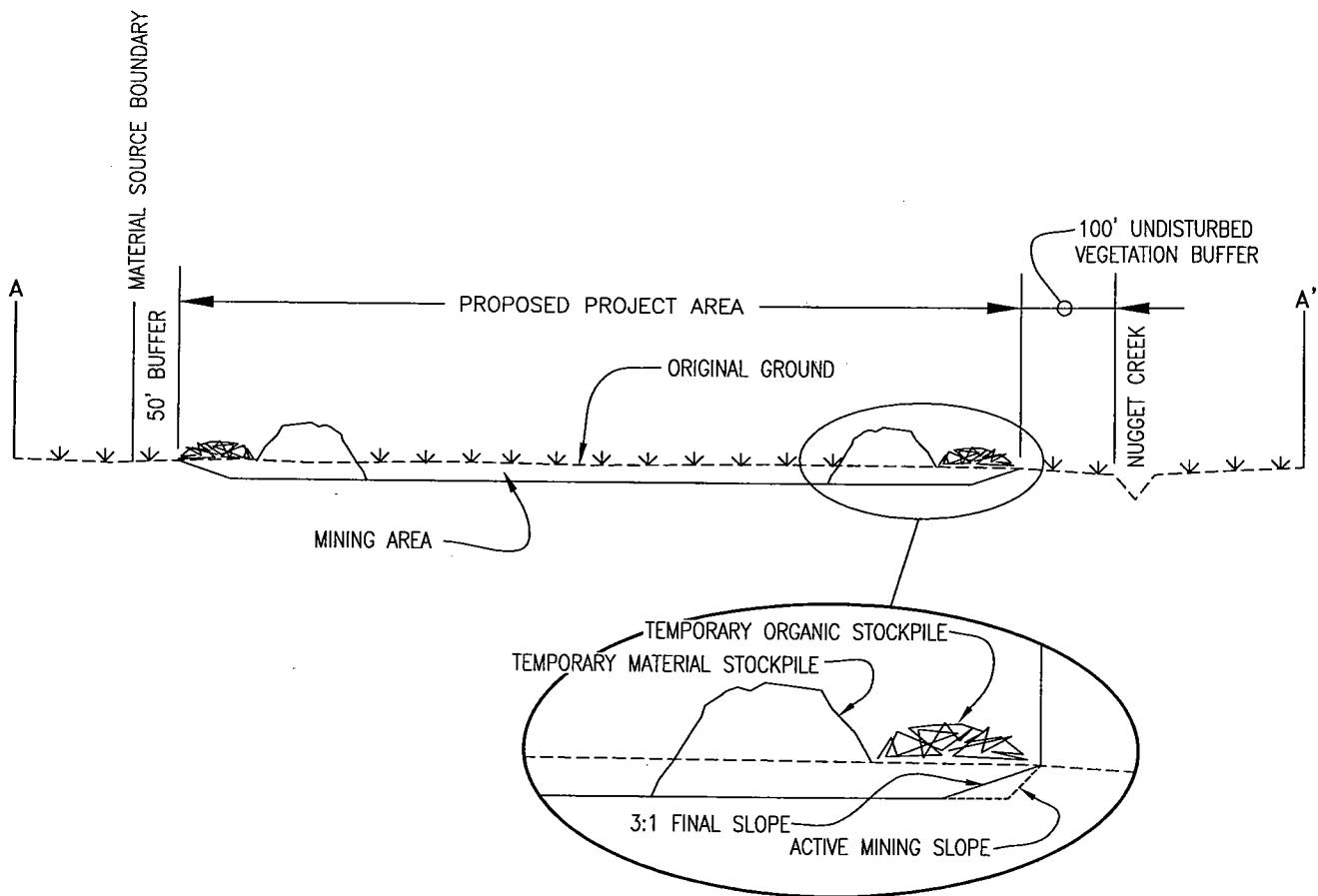
STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161)	
M.S. 65-9-097-2 NUGGET CREEK	
DATE: 09/22/06	FIGURE D-6-A



M.S. 65-9-097-2
Nugget Creek

PROJECT IMPACTS

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161) M.S. 65-9-097-2 NUGGET CREEK	
DATE: 09/22/06	FIGURE D-6-B

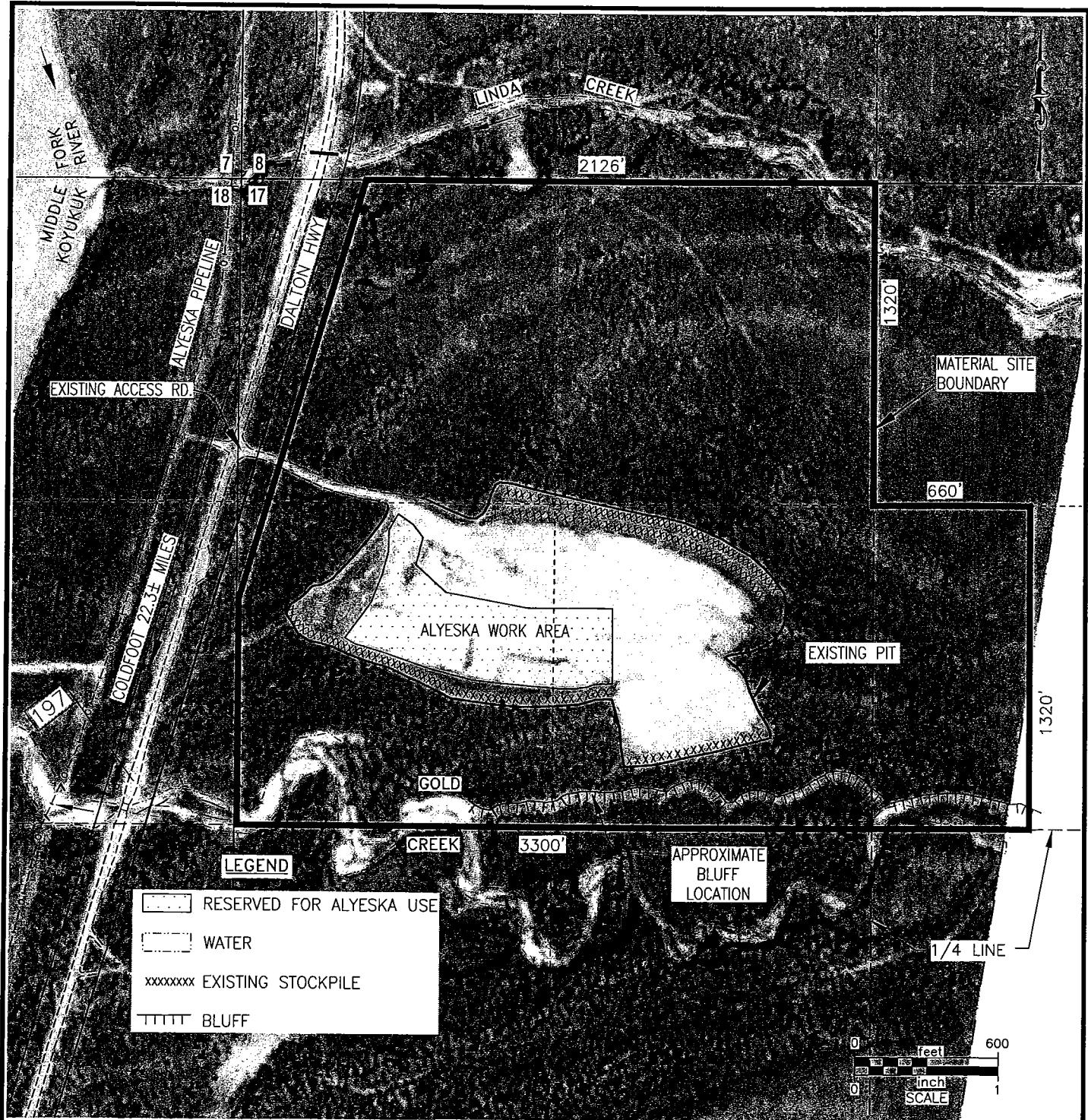


CONCEPTUAL CROSS SECTION A - A'
NO SCALE

M.S. 65-9-097-2
Nugget Creek

CROSS SECTION

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161)	
M.S. 65-9-097-2	NUGGET CREEK
DATE: 09/22/06	FIGURE D-6-C



M.S. 65-9-052-2
Gold Creek ~ M.P. 197

LANDOWNER: BLM

NW¹/₄ East of the Dalton Hwy, AND W¹/₂ SW¹/₄ NE¹/₄ OF SECT. 17, T31N, R10W, FM
USGS QUAD MAP CHANDALAR (C-6)

AERIAL PHOTO

DATED 2001

STATE OF ALASKA
Department of Transportation and Public Facilities
APPLICANT/AGENT: Chuck Howe
2301 Peger Rd. Fairbanks, Ak 99709

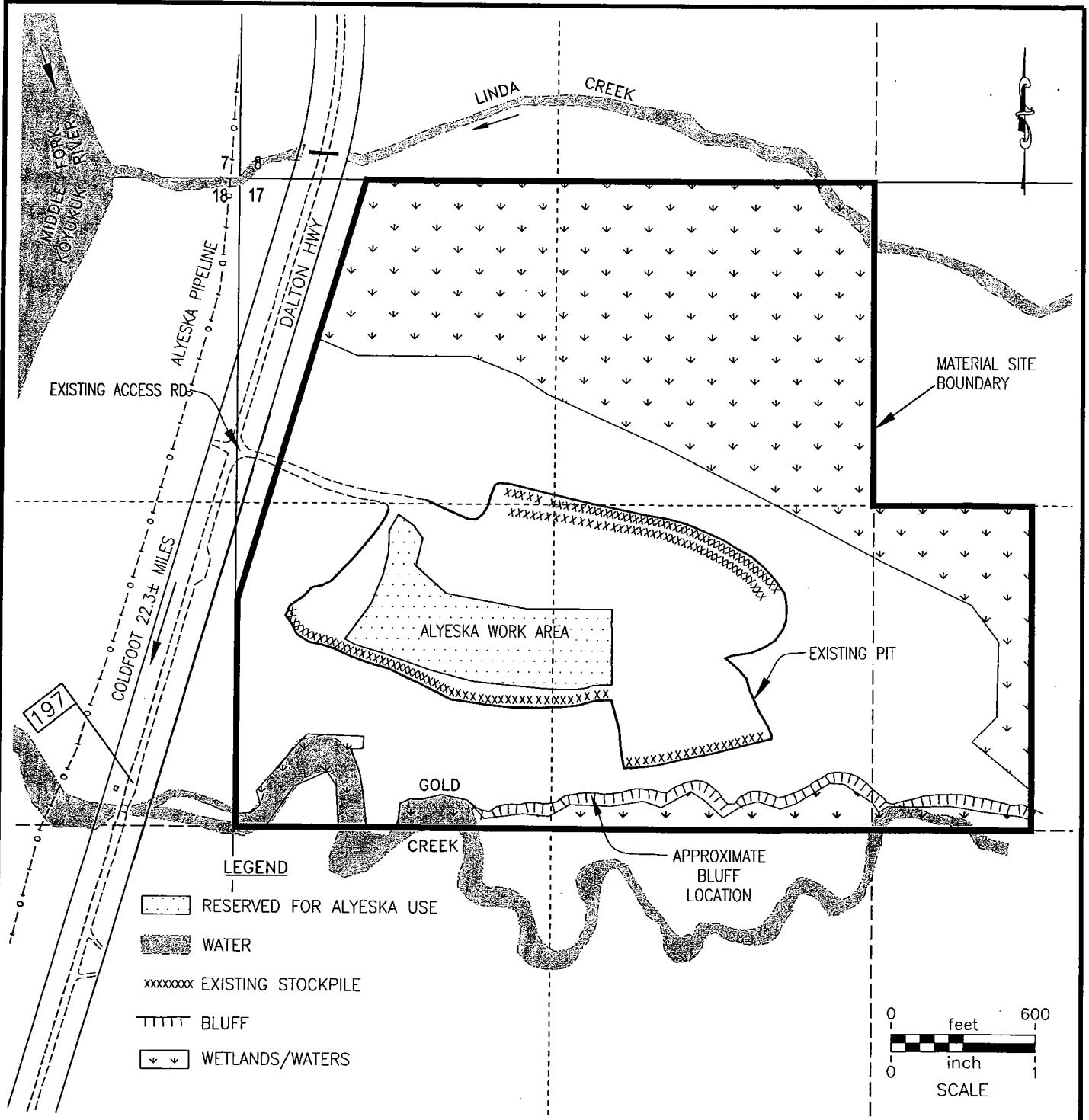
DALTON HIGHWAY
MP 175 TO MP 209

IM-DP-065-4(8)/61214 (POA-2001-1161)

M.S. 65-9-052-2 GOLD CREEK

DATE: 09/22/06

FIGURE D-7



STATE OF ALASKA
 Department of Transportation and Public Facilities
 APPLICANT/AGENT: Chuck Howe
 2301 Peger Rd. Fairbanks, Ak 99709

M.S. 65-9-052-2
Gold Creek

WETLANDS DELINEATION

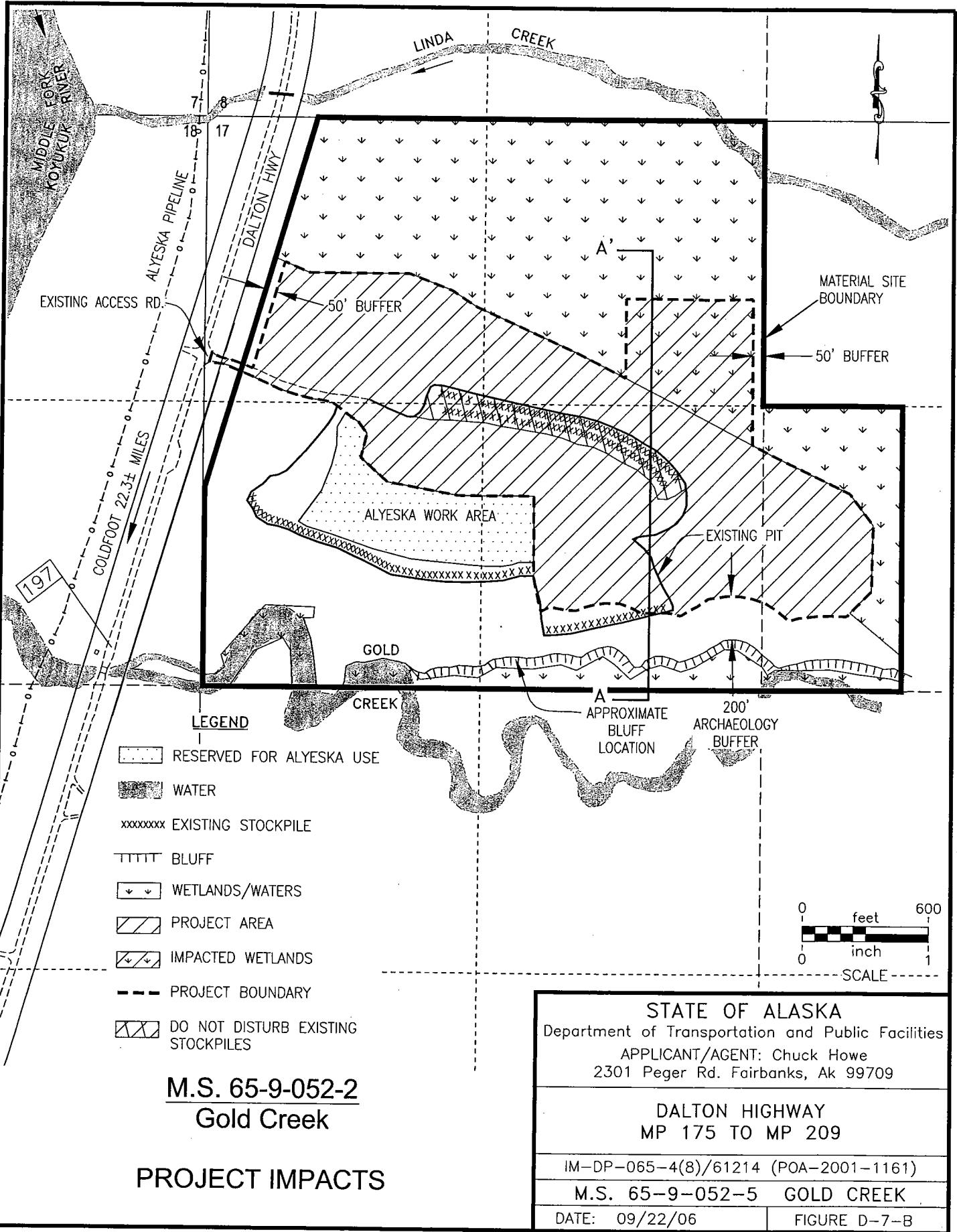
DALTON HIGHWAY
MP 175 TO MP 209

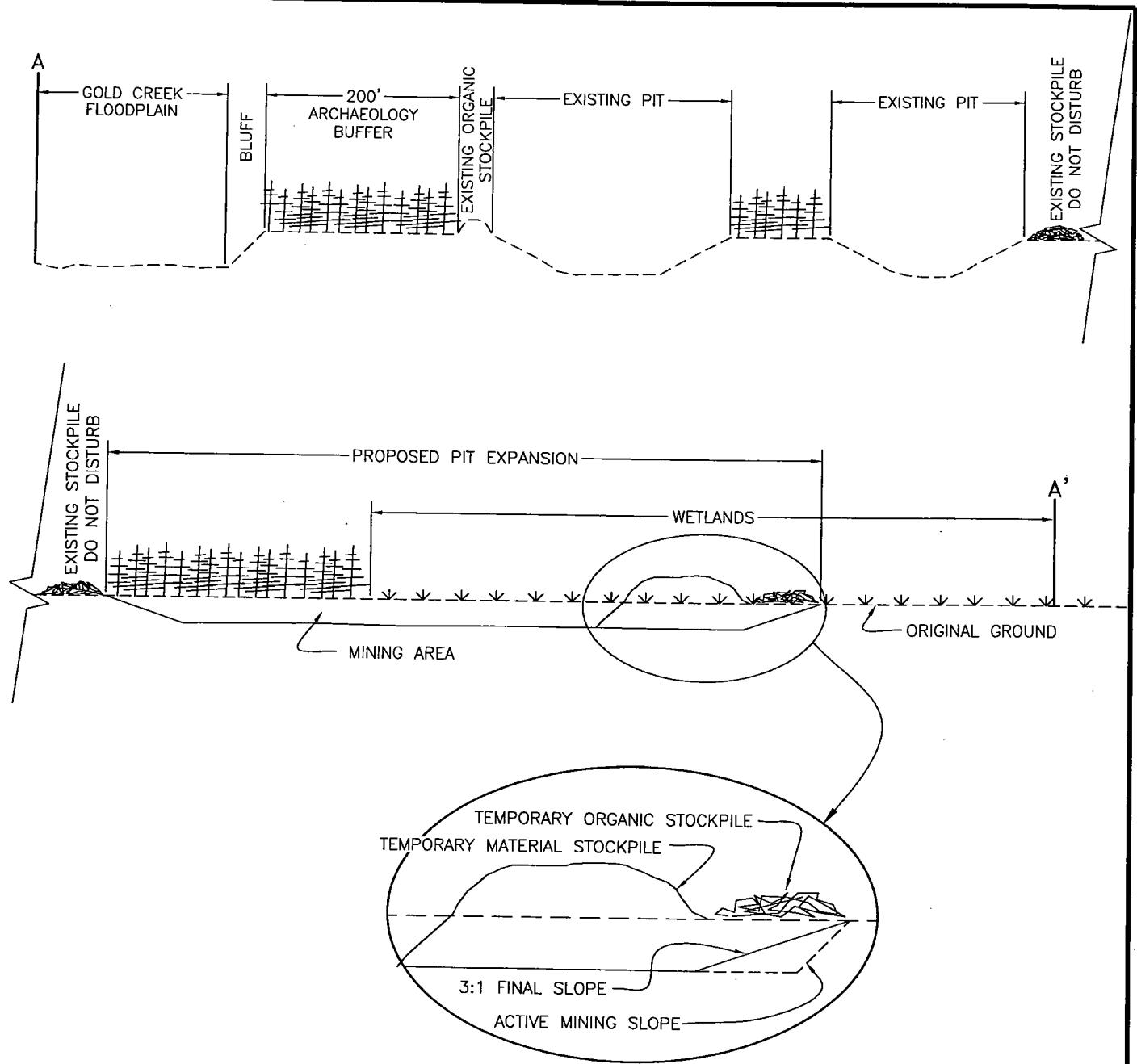
IM-DP-065-4(8)/61214 (POA-2001-1161)

M.S. 65-9-052-5 GOLD CREEK

DATE: 09/22/06

FIGURE D-7-A





CONCEPTUAL CROSS SECTION A - A'
NO SCALE

M.S. 65-9-052-2
Gold Creek

CROSS SECTION

STATE OF ALASKA Department of Transportation and Public Facilities APPLICANT/AGENT: Chuck Howe 2301 Peger Rd. Fairbanks, Ak 99709	
DALTON HIGHWAY MP 175 TO MP 209	
IM-DP-065-4(8)/61214 (POA-2001-1161)	
M.S. 65-9-052-2 GOLD CREEK	
DATE: 09/22/06	FIGURE D-7-C